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## COLMAN'S RURAL WORLD.

NORMAN J. COLMAN,  
LEVI CRUMRICK,  
EDITORS.

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### THAT "BLESSING IN DISGUISE."

The Great St. Louis Fair next week,  
Oct. 7-12.

Editor RURAL WORLD: What Mr. Jackson says in the RURAL WORLD, Aug. 21, about the drought being "a blessing in disguise" is "true as holy writ." So says C. D. Lyon in RURAL WORLD Sept. 11. This sentiment has been expressed in the RURAL WORLD several times lately. Is the statement correct? Let us see.

Blessing is defined by the Standard Dictionary as follows: "That which makes happy or prosperous; any temporal or spiritual gift calling for gratitude, especially a divine favor; a mercy."

In the light of this definition I wish to test that statement. If a drought is a blessing it follows that the worse the drought the greater the blessing. I believe that I am qualified to speak on this subject, for I have passed through three of these "blessings in disguise" in the last ten years, two in western Kansas and the present one in Missouri.

I went to Norton Co., Kan., in the winter of 1881 and 1882, and bought a well improved farm. In 1882 I had less than half a crop of corn, but wheat, rye, potatoes, oats, and all kinds of vegetables were a complete failure. I suppose that Mr. Lyon had been there he would have said, "It is a blessing, Mr. Colman, a blessing in disguise." In 1884, which was the worst year western Kansas has had since it was settled by the whites, there was nothing raised.

Wheat and oats did not head, and much of the corn did not get high enough to be seen above the ridges which the litter made when it was planted. Hogs were sold at a sacrifice and we sent our cattle and horses south, where they were herded on the dry buffalo grass. According to the theory of Mr. Lyon, it was only another "blessing in disguise."

I sold my farm for \$400, less than the cost of the improvements, the labor not included, and came here for the same reason the young man who had gone to three different places, on Sunday evening, to see a girl, and found another fellow ahead of him at each place. He went to church. The minister called upon him to lead in prayer and he began by saying: "Oh, Lord, thou knowest that am here because there was no other place for me to go."

On account of the "blessings" one of which was comparatively small, the other very great, which I had enjoyed in Kansas, I was so nearly ruined financially that there was no place for me to go and get enough land to make a farm, except to "Poor old Missouri." That course, was only "a blessing in disguise."

Here I bought a farm, a part of which was in cultivation, the remainder covered with heavy timber. On this I paid what money I could and went in debt to such an extent that the wise ones said "he will never get out; he will lose it all." That debt was another "blessing in disguise," to be sure, for it was one result of the "blessings" through which I was given "Eyes the good to see in all things save sin."

The truth is the drought is a calamity without any tendency to make men frugal continuously. Mr. Jackson says the drought of 1881 made him frugal. Grant it. What then? He is a man of a thousand. He was benefited while the rest were made to suffer in order that he might be taught frugality. Call you that a blessing?

A. CALHOUN.

### VERNON CO. (MO.) NOTES.

Editor RURAL WORLD: About all the corn has been cut. Pastures are good and getting better. Stock water is plentiful and we feel more like living than we did in July. Apples are falling badly, but there will be enough for home supply. The peach crop was better than expected and brought prices all the way from 25¢ to 75¢ per bushel. Sweet potatoes that were kept free of weeds and cultivated are making a good yield. We mulched our late Irish potatoes with old hay, coarse manure, etc., and they are now making a fine growth, are in bloom, and if we do not have an early freeze we have some Murphies yet. C. A. BIRD.

### PRICKLY PEAR NOTES.

Post-Frosterlorly.

Editor RURAL WORLD: Yes, we had a little straight-edged shower, two or three of 'em, in fact; but that was so long ago!

Turnip seed sowed August 20 has materially about a dozen or so measly looking little pale-faced plants, and now frost has come down like a wolf on the fold, and the woodland is gleaming in purple and gold.

Some local spots have had more showers than we, some less; but, taken altogether, this is certainly well within the dry belt. Mighty clouds with deep muttering thunder rise, only to fall again into the low, sweet cadence of a summer breeze; while the weary water-hauler, in which class may be numbered three out of every five heads of families, goeth his way to the gum log at the spring in the middle of the road at the creek.

The creek averages about two miles away; round trips twice a day, result in eight miles of travel daily. Repeated 30 times every month, with the drought already four months, and you can have some idea of the disadvantage of living in a "dry and thirsty land where no water is."

Most of the corn is cut and will make fairly good fodder. Mast is not plentiful and hogs will be sold short, likewise cattle. Many have been feeding stock for some time past, so that, verily happy is that man who hath little live stock in the stall. One of our county merchants who a year ago was holding his stock as a first class proposition, said not long ago that he wishes he could find some one who would buy his stock, as the coming year would be very close financially.

However, as each cloud has a silver lining, so here we have had a bountiful wheat crop and now a good peach crop, insuring bread and stews peaches all winter. Where the peaches secured their necessary moisture is a mystery, but we have the neatest, richest, smoothest fruit since we settled here, five years since.

A couple of bushels of wild grapes made a luxurious addition to the winter stores. Part of the juice cooked with red cling peaches and made into butter made the richest combination we have found, no water being needed to cook it down; just pure grape juice and peaches.

The resulting product needs labeling, as the uninitiated would never guess as to the composition. For more than a month we have been sated with peaches in all styles save the usually accepted one-peaches and cream, as our milk-cow, owing to the extraordinary lack of humidity in nature this summer, early became discouraged, in spite of extra care, and left us desolate and milkless. Owing to her previous good behavior we bore the loss as philosophically as possible, while hoping for wetter times.

It seems as though the President's taking would lead to better laws and their enforcement in regard to anarchists and general violence in all parts of the country. Stringent measures are certainly needed, and riot and bloodshed were so common that it seemed as though nothing less than some appalling catastrophe would arouse the people to a sense of duty toward lawlessness. Let us hope the lesson will not be soon forgotten, and that our beloved country may become in a fuller and better sense than ever before "the land of the free and the home of the brave," while forever shutting without her gates those whose only idea of independence is the power of destroying that which better men have builded.

It certainly behoves every individual in all the land to use his or her personal influence toward the upbuilding of a high moral sentiment in every station of life, that the nation may grow stronger in righteousness and freedom and achieve that mighty destiny toward which this Queen of Republics is bound.

We have not been at the rain-bow city but from some of the reports of those who have "seen it all" we content ourselves with the pleasing thought that our own St. Louis will carry away the international medal as compared to any other exposition, from the year one. Being centrally located, she will present the best opportunity to show to the world the South and its advantages as well as the other sections, and should be an immense advantage commercially and educationally (and may we say morally) by having closed Sabbaths, and less questionable Midway attractions) to the whole Central Mississippi Valley.

Yes, we look for great things at St. Louis in 1893, and intend giving it our personal support! Course it'll go!

RALPH T. HOYT.

Oregon Co., Mo.

### THE FALL ARMY WORM.

Editor RURAL WORLD: I am sending you under another cover a few worms which some think are army worms; others say it is too late for the army worm. These were in a wheat field that has been plowed and is being sown to wheat. The worms are eating the volunteer wheat and crab grass.

I would like to know what the worms are, and if, in your opinion, they will destroy the young wheat when it comes up. We had the ground almost all sown before we noticed the worms.

Pulaski Co., Ill. M. H. BAGBY.

Miss Murfield has examined the worms and reports as follows:

The larvae submitted to me from your

correspondent, Mr. M. H. Bagby, are not the true army worm, but are a kindred species, known as the Fall Army Worm (*Laphrygma frugiperda*), an insect which not infrequently attracts attention at this season of the year. While this worm is a very general feeder it seems to prefer grain and grass when these are attainable, and is often found in great numbers on early sown wheat and rye.

There is, however, no danger from it for grain sown at the present date, as the present brood of larvae is the last of the two or three annual broods and will soon enter the ground for transformation and remain there, in the pupa state, until spring. Should the fall not prove too dry any fields of grain that have already been damaged will no doubt recover.

MARY E. MURFIELD.

Kirkwood, Mo.

### PULVERIZED GYPSUM.

Although there has as yet developed little need for soil fertilizers in the Central West, their application, sooner or later, likely will be a necessity for obtaining satisfactory results, as has been the experience in the older agricultural states.

Pulverized gypsum is recognized the world over as having extraordinary merit as a soil fertilizer. Kansas especially

has vast deposits of gypsum, - having marketed a quantity last year larger than any other state, save Michigan; hence, its proximity alone to the agricultural lands of the Middle West will in time make it equally valuable to that region, not to mention the profit derived from its sale as a commercial commodity. For these and other reasons the paper read before the annual meeting of the Kansas Board of Agriculture by Prof. Erasmus Haworth, of the State University, upon invitation of Secretary F. D. Coburn, on "Kansas Gypsum and its Value as a Fertilizer," excerpt from which are given, is timely and suggestive.

Pulverized gypsum has been used as a soil fertilizer for more than 2000 years. It is established beyond a doubt that for certain kinds of soil all over the world gypsum, or gypsum, is an exceedingly valuable fertilizer. It is used most extensively in old countries where fertilizers of all kinds are most in demand. It constitutes one of the main materials for enriching the soil today throughout Canada, New England and the central and southern Atlantic states, and its extensive application is gradually moving westward. It appears to be the most valuable fertilizer for grasses and leguminous plants, although there is an abundance of proof that for some soils it is equally valuable for corn, wheat and other cereals. Its use in Kansas is almost entirely unknown, although the state possesses such large quantities of it.

Gypsum is considered an indirect fertilizer; that is, it is not taken up directly by plants to any considerable degree, but when placed in the soil it assists in providing other plant foods. If something can be added to the soil which does not have a deleterious effect and which will intensify the chemical disintegration, it corresponds in every respect to returning back to the soil the ash of the plants previously grown, because it renders available for immediate use a large amount of soluble soil constituents. It is now pretty generally admitted that gypsum serves this important purpose.

Kansas gypsum is one of two distinct varieties, which differ from each other in origin and in methods of manufacture. The most abundant variety is the ordinary rock gypsum, which exists in broad layers interstratified with limestone and shales, so that in every respect it is a genuine rock. It is exceedingly pure, frequently yielding by analysis no more than one or two per cent of impurities, and is the equal of any gypsum in the world for the manufacture of the highest grades of plaster of Paris and, when properly mixed with efficient retarders, makes as high grade gypsum cement plaster as can be found in the markets of Europe or America. Another variety, which is of a pulverulent form. It is found at or near the surface of the ground, generally in wet or marshy places, and is more or less mixed with earthy matter, such as soil, clay, sand, etc., and has been known in Europe for more than a hundred years as gypsum earth. Dust blown by the winds and the small amount of material carried down by drainage mixed through the beds produce the impurities referred to, which have been found to be natural retarders when the material is calcined into plaster, producing one of the best cement plasters ever known. It is counted a little better for plastering walls than the ordinary plasters made from the rock gypsum, the reason being that the impurities present in kind and amount happen to be just right for retarding the setting process sufficient to allow the workman to trowel the mortar down to whatever form he desires.

Land plaster, as used thus far, has generally been made from the rock gypsum by grinding to a coarse powder. It is believed that the gypsum earth, when too badly mixed with clay and soil, will make just as good a fertilizer as the ground rock gypsum. The only objection to the presence of these impurities is that they act as a dilutant. The gypsum earth, therefore, is already pulverized and in an excellent state of preparation for applying immediately to the soil in the same manner that ground rock gypsum is supplied.

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VIEW ON ENTERING GROUNDS—GRAND AVENUE ENTRANCE, ST. LOUIS FAIR.

### BALANCED RATIONS FOR PLANTS.

Excess in Nitrogen, Etc.

Editor RURAL WORLD: Under the heading of "Something About Manure," Howard's Dalryman has this to say: "The soil of this county is largely a compound of glacial-drift. Naturally it is not as fertile as many other portions of the state. So to start with, about every farmer stood nearly equal with his neighbor, in the natural fertility of his soil. From 1840 to 1870 the main production of the county was wheat. The methods of farming were stupidly wasteful, and they soon brought the land to a low production of nearly all crops.

"The change from wheat to butterfarming has produced a wonderful increase in fertility, so that to-day staple crops of grain, corn and grass are grown. For every ton of wheat the farmer sold, they took out of the soil \$7 worth of fertilizer. For every ton of butter sold only 50 cents worth of fertility is disposed of. Such a change of policy, such a difference in the effect on the soil of two methods of farming, must in the very nature of things show for itself.

"The effect on different farms is, as we said at the beginning, very instructive. On hundreds of farms that we know of it is becoming a matter of some difficulty to grow oats on account of the falling down, or 'lodging,' as it is commonly called, of the grain before it is fit to cut. This effect is due to the large percentage of nitrogen in the soil and is especially noticeable on the farms whose owners have been large buyers of bran and gluten for years past. Carrying a large stock of cows, young cattle and hogs, and buying bran has done this work. Not only has this policy made the farms rich, but it has made the farmers rich.

"What our lands need now is potash and phosphoric acid, and our farmers would do well to give larger study to the use of mineral fertilizers. If something can be added to the soil which does not have a deleterious effect and which will intensify the chemical disintegration, it corresponds in every respect to returning back to the soil the ash of the plants previously grown, because it renders available for immediate use a large amount of soluble soil constituents. It is now pretty generally admitted that gypsum serves this important purpose.

"We have the soil too rich in nitrogen, and the land that was said to be 'too rich' for said crops. We ourselves have repeatedly heard these reasons given, and from otherwise quite intelligent and wide-awake farmers. Knowing absolutely nothing of plant food, how obtained, or whence obtained, as a matter of course, the above solutions of the mystery are the best they can give, or can reasonably be expected to give. Aforesaid instances are each and all very plain indication of a lack of proportion of the plant food contained within the soil.

"We stated the case as it is often stated by others, that the evils above mentioned were brought about by an excess of nitrogen. We now claim that the aforesaid condition is not due to excess of nitrogen, in the sense of there being too much nitrogen present in the soil; but is owing to a lack of potash and phosphoric acid in a quantity sufficient to properly 'balance' or bring about a due proportion, or an equilibrium of each of the three leading elements of fertility, to-wit: the nitrogen, phosphoric acid, and potash. This done, and the supposedly deleterious influences attributed to the moon cease as if by magic, and the land that was said to be 'too rich,' though made vastly richer by the liberal addition of potash and phosphates, gets a hump on itself and brings forth an astonishing yield of ears and heads as well as stalks and straw; tubers as well as tops and vines; and more fruit as well as being of better quality, while the wood growth is correspondingly circum-

expense of the fruitage of the plant, as for instance, wheat, oats, barley, or rye with a preponderance of straw, but with heads so diminutive and so ill-filled as to be altogether out of proportion; also tubers, leading some of our moon-struck friends to imagine they were 'planted on the wrong side of the moon'; fruit trees of all kinds in the orchard, making woody growth when they should have been putting on and maturing a heavy crop of fruit, the trees making a magnificent growth of wood, but little if any fruit, and the little there rotting on the tree before it has a chance to ripen; corn stalks trying their level best to reach the sky, and the exceedingly diminutive and insignificant nubbin pointing skyward also, the corn yielding a paltry 10 or 15 bushels per acre when there was stalk growth sufficient to apparently insure the making of at least four times the amount.

"Now, these are all familiar instances, every farmer has seen them to a greater or less extent, but, as previously stated, give a reason therefore that said crops were planted 'on the wrong side of the moon,' or that the land was too rich for said crops. We ourselves have repeatedly heard these reasons given, and from otherwise quite intelligent and wide-awake farmers. Knowing absolutely nothing of plant food, how obtained, or whence obtained, as a matter of course, the above solutions of the mystery are the best they can give, or can reasonably be expected to give. Aforesaid instances are each and all very plain indication of a lack of proportion of the plant food contained within the soil.

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ferential and profitable results, both potash and phosphates should be freely used in conjunction therewith, and must be, if the very best possible results are ever to be obtained. The tendency of phosphates is to increase fruitfulness, having more to do with the number of fruits set than to the quality of said fruit, while potash on the other hand seems to exert its influence almost exclusively in increasing, not the number of fruits set, but the quantity and size, as well as quality of said fruit. Notably is this the case with the potato. Potash increases the quantity of starch in all starch bearing plants. As potatoes and corn are composed mainly of starch, it is futile to expect a large crop of either where potash is deficient. In peaty or boggy soils, no matter how great may be the supply of organic nitrogen, and no matter how well drained they may be, the tubers, if any at all are formed, are undersized, watery and watery. This is entirely owing to the lands being deficient in potash. No amount of stable manure will remedy the difficulty, on the contrary, stable manure is invariably unnecessary, and its effects injurious on such soils.

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# The Dairy

## DAIRY CONVENTION DATES.

MISSOURI STATE DAIRY ASSOCIATION, Palmyra, Nov. 7, 8, 9. Levi Chubuck, Secretary, St. Louis, Mo.

IOWA DAIRYMEN'S ASSOCIATION, Dubuque, Nov. 12, 13, 14. J. C. Daly, Secretary, Charles City, Iowa.

MINNESOTA STATE Butter and Cheese Makers' Association, St. Cloud, Nov. 20. J. K. Bennett, Secretary, Clinton Falls.

WISCONSIN DAIRYMEN'S ASSOCIATION, Menomonie, Feb. 12-16, 1902. G. W. Burchard, Secretary, Ft. Atkinson, Wis.

## THE MISSOURI DAIRY MEETING

At Palmyra, Mo., Nov. 7-8.

In response to the call for suggestions from dairymen as to subjects they would like to have discussed at the coming meeting of the Missouri Dairymen's Association, Secretary Levi Chubuck has received the following:

**THE SECRET OF SUCCESS.**—Robert Sellars, general manager of the Bonne Terre (Mo.) Farming and Cattle Company, writes: "I would say that, in my judgment, the secret of the Missouri Dairymen's success in the future lies chiefly in their raising on the farm what they need for the cows," and he therefore thinks that a discussion of this "secret of success" should have a prominent place on the program.

**SILOS AND ENSLAGE.**—R. H. Petesbridge, St. Louis, suggests along the same line, that a prize be offered for the best sample of ensilage exhibited, 15 or 20 pounds, cut out in a block, competition to be open to all the states, this to be made the means of conveying to the delegates information as to the character and varying quality of ensilage, and of securing information in regard to the proper construction of silos, how to fill and what to grow for ensilage crops.

**THE BABCOCK TESTER.**—Geo. V. Saffarrelli, Palmyra, Mo., writes that the Babcock tester is, in his opinion, the most important factor in a creamery, and suggests that there should be a lecture on the subject by an expert and a demonstration of how the tester should be used.

**THE JERSEY COW.**—Mr. Saffarrelli also suggests that there should be a paper on the handling of Jersey cows, and that a herd of selected cows should be placed near the convention hall to be used for illustrative purposes.

**THE OLEO QUESTION.**—Chas. Y. Knight, editor Chicago "Produce," says: "I hope you will give your people a stirring up on this" (the oleomargarine question).

With the assembling of Congress in December, the agitation in favor of the Grout bill, left "in committee" by the last Congress, will begin anew. It is, probably, the bill most important to the interests of American farmers and dairymen that the coming Congress will have to deal with. The Interstate Commerce law and relevant legal decisions operate to make partially or entirely ineffectual state legislation against the sale of oleomargarine, renovated butter, etc., in the guise of genuine butter. National legislation seems the only effective remedy. Arranged on the side of the Grout bill is practically every farmer and dairymen. Opposed to it are the manufacturers of oleomargarine, etc., including several of the large packers, and behind them is unlimited capital. The action of Congress is awaited with interest.

The wish is expressed in this connection that the Missouri State Board of Agriculture, which has charge of the enforcement of the state anti-color oleo law, report to the coming meeting its measure of success in enforcing the law.

**DOES IT PAY?**—H. A. Bereman of the Bereman Farm Dairy Co., Normandy, Mo., suggests a pregnant subject in the question, Does it pay? The phase of the subject he would like to have discussed is that which would develop the method of determining when one is making the business pay or not. We are told that dairying, when intelligently followed, is one of the most profitable lines of farming, but how many dairymen in Missouri or any other state are prepared to give figures that prove that dairying does or does not pay?

**MISSOURI AS A DAIRY STATE.**—W. W. Marple, manager of the Blue Valley Creamery, St. Joseph, Mo., says Missouri is naturally a better dairy state than is Iowa, yet the latter received annually more than \$21,000,000 for the butter shipped from the state, while Missouri pays out yearly \$40,000 in excess of what is received for butter. And Missouri farmers do not make good the deficiency by a greater production of cereals as is assumed by some, for statistics show that she is behind Illinois, Iowa, Nebraska and Kansas in value of cereals produced. (See RURAL WORLD of September 25, page 2) Mr. Marple would like to have the Missouri Dairy convention discuss this condition of affairs and determine, if possible, how the state can be made to take more equal rank with her sisters as a dairy state.

**DAIRY INSTRUCTION NEEDED.**—That Missouri dairymen can make good butter has been amply proven by the scores obtained at every scoring this season at the Pan-American Exposition, and on numerous other occasions. It is therefore incumbent on someone to show the farmers of the state generally that it will pay them to give more attention to dairying. This, it is suggested, the newly appointed professor of Dairy Husbandry in the Missouri Agricultural College, Prof. C. H. Eckles, and his assistants, will undertake to do, making large use of the Holstein test.

**THE WORLD'S FAIR CITY.**—St. Louis as a market for dairy products is a subject of great importance and worthy of consideration at the Palmyra meeting.

The daily consumption of milk in St. Louis is about 30,000 gallons, more than one-half of which is produced from about 8,000 cows that are maintained within the city limits in what are commonly called "swill dairies," and fed largely on distilled swill and refuse from the breweries—hence the name, "swill dairies." The unhealthful character of the milk produced from cows fed on this food and kept for the most part in very unsanitary quarters has led the City Health Department

to regard these dairies as a menace to the public health, and the desire is that they be banished from the city. This desire is intensified and made vastly more urgent because of the World's Fair to be held in St. Louis in 1903. But if the product of 8,000 cows is to be cut out of the present supply, there will be need for a greatly increased production of milk in the farming territory within easy reach of St. Louis by rail. It is suggested that "St. Louis as a Milk Market" would be a profitable subject for discussion at the coming meeting. It is further suggested along this line that St. Louis has great advantages as a consuming and distributing market for butter and cheese. The consuming population is large and growing rapidly, and during the next few years there will be an enormous increase in consumption, and as a distributing point St. Louis should be unsurpassed.

These few suggestions have opened up a wide field, but do not cover near all the ground covered by the dairy industry. Who has other suggestions?

## CEDAR HILL JERSEY FARM NOTES.

**EDITOR RURAL WORLD:** To-morrow morning our corn crop will begin traveling up the ensilage cutter carrier, at the rate of ten tons per hour. Ten tons per hour means one acre of our crop this year, and one acre of corn means an hour's work with the corn binder and a little over one-third of a bushel of twine.

The past week our ensilage cutter has been at a neighbor's filling a 250-ton silo. This man thought a blower elevator was the thing, so bought one, and after two days fusing with it, threw it aside and got a rig that would cut and elevate. The blower, if it would work, is an expensive method, as it requires so great a power, fully one-third more than a flat carrier; and it delivers it into the silo in a regular manner, making it very disagreeable for men who are in the silo.

I was over in Iowa last week and saw several dairy and stock farms equipped with silos. The cost per ton for labor in filling silos I found varied greatly. In the case of hand-cut corn, the cost was as high as \$1 per ton. I found a man with a corn binder and good cutter who reported that 75 cents was as low as he ever succeeded in getting his ensilage cut. I found in every case that the best methods were not used—such as low-down wagons, ample power, first-class cutters, willing men and a good manager. Another thing is tons per acre. So many people try to produce large yields of fodder by planting corn that is planted for the grain yield. What we want is a very large yield of stalks and foliage and a small ear. We can cut 15 tons per acre cheaper than 10 tons in proportion to yield. Our corn and sorghum will be mixed as cut, load and load as long as sorghum lasts, which will be quite a while, as we have 12 acres and we look for 14 or 15 tons per acre from it. While we will employ 14 men, we expect a larger number with us. The extra ones will be students. They will come from different parts of this state, Iowa, Ohio and Missouri.

**THE MISSOURI DAIRY CONVENTION** to be held at Palmyra, Mo., will be a good place to give the feed question careful study, and I am sure those who have been writing me regarding what to feed and what to buy will be well paid for attending. At no time in the past has there been so much need for knowledge along this line as at present, and I hope that on the program for the meeting the feed question will be given a prominent place.

Take the case at Cedar Hill, with 10 horses, 90 head of cattle and 40 hogs. We do not expect to buy any corn if price is above 45 cents. Why? Because we can buy other feeds that are cheaper. We can not buy oats, as there is no margin of profit. Every feeder should know the chemical composition of every grain and by-product, its practicability and its adaptability to all kinds of farm stock.

Warren Co., Ill. "BUFF JERSEY."

## THE MODEL DAIRY

At the Pan-American Exposition.

**EDITOR RURAL WORLD:** The American Holstein Breeders' Association brought a number of cows to the grounds to illustrate their system of qualification for the Advanced Registry. These cows were brought near Buffalo to a farm some five weeks before entering on the Pan-American Exposition grounds, to calve and prepare them for the test.

Comparing the work done in both barns we find that during the best week of the leading cow in the Model Dairy herd, the Guernsey cow, Mrs. Marshall, is credited with 140 lbs. of butter fat. Cassiopia, also a Guernsey, made within a fraction of the same amount. The Canadian Jersey Primrose, is credited with 12.74; the Red Poll cow, Mayflower, 12.78; the Canadian Ayrshire cow, Lady Flora, 12.85, and the Canadian Holstein, Beauty of Norval, 12.65. This was in their ordinary run of work during the entire summer, not a week's time, consuming from 12 to 12 pounds of grain feed per day at a cost of about 10 cents. But one of the Holstein cows has equalled this; she made during the week 15.02 of fat, but her grain feed was more and cost more. Two others made 13.36 and 13.04, respectively, while the others varied from 10.24 to 12.92. This surely shows that the Model Dairy cows have done better work when all things are considered.

In the Model Dairy the question of net profit is the only one considered in the awards, consequently the question of greatest production has never influenced the work. The cost of production is always apparent in the Model Dairy, and it was not taken into consideration in the Holstein test.

The Holstein people were accorded every aid, facility and opportunity by the officials of the Model Dairy before and during the test. J. FRED SCHLAPPY, Superintendent of Feeds.

**THE FRENCH CANADIAN COWS** at the Model Dairy at the Pan-American have attracted a great deal of attention. They have produced a fair amount of milk of an average quality on a cheaper ration than has generally been considered possible. They have been affected less by heat and cold and other unusual conditions of their surroundings than any other breed. With their strong constitutions, the ability to take care of themselves, together with their liking and easy assimilation of coarse feed, they have evidently a place in our American dairy economy.

During the experiments at the Model Dairy they have won a great many favorable comments. Coming here as strangers, the American farmers already feel that they have made a new and valuable acquaintance.

## DAIRYING IN MARION CO., MO.

The following from the Marion County, Mo., "Herald" will be of interest to dairymen who expect to attend the coming meeting of the Missouri State Dairy Association at Palmyra, Mo., Nov. 7-9, 1901. Marion County is well adapted to dairying here than is raised in Kentucky. Living springs abound and good water can be struck all over the county at an average depth of 100 feet. Our winters are not very long and cows can be wintered cheaply. Good land for dairy purposes within a few miles of Palmyra can be bought as low as \$25 per acre and better land with good improvements for \$40 per acre. Our creamery has been in operation for about one year. It has about 80 patrons and for the past six months the payroll has been about \$1,800 per month. Many of the patrons had practically no experience in handling cows before the creamery began operations and many of them are now milking cows that have no business in a dairy. This results in a wide range in the average monthly returns per cow. We have taken a few names at random among the patrons and give the results for the past four months. Ira Suter milked nine cows and received for his cream \$197.14. During the four months his cows were on blue grass pasture and were fed no grain. Clarence Dearing milked 10 cows and received \$190.29. Wm. Glendinning milked 14 cows and received \$164.89. Chas. Schach milked six cows and received \$64.57. E. L. Buckwalter milked 12 cows and received \$185.15. I. K. \$233.57. J. B. Leggett milked nine cows and received \$145.82. It will thus be seen that cows averaged all the way from \$2.75 to \$40 per month for the period of four months. It must be borne in mind that the farmers get the skim milk back and the value of this as a feed for hogs and calves is hard to estimate. We think the above figures abundantly prove what the "Herald" has often claimed, that a man who understands dairying can make a living on 40 acres near Palmyra and can get rich on 80 acres.

Jas. Curd's silo is completed and now contains 30 acres of corn cut to the required dimensions. The silo is 30 feet high and 14 by 14 feet. It is square in shape, the corners being cut off. Its capacity is from 75 to 100 tons. We hope Mr. Curd's experiment will prove a success in every particular.

Ira Suter has been averaging over \$5 a head on his cows ever since the creamery started. His cream has never failed to reach the creamery in good condition. All during the dry weather and extreme heat of July and August his cows had only blue grass and good water, no grain of any kind, and they averaged him over \$4 a head per month. The "Herald" likes to print such items as this. We preach the doctrine that if a farmer wants to be successful he must work with his brains as well as with his hands, and such items as this prove it.

## THE QUEEN'S DAIRY.

The Consort of England's King is Fond of Cows and Milk.

One hears so much of the Queen of England's fondness for dairying, but not so much has been written of the dairy itself, says an exchange.

The picturesque building is a superior Swiss cottage, pleasantly covered and shaded with climbing plants and contains several apartments, the dairy itself being a charmingly cool and lofty room, 20 feet square, with a tiled floor and handsome high dado of rare old blue and white Indian tiles. The best ornament of the dairy consists of 30 or 40 flat pans of delicious milk placed on a row of tables around the room.

In the center is a two-tier white marble table, on which are displayed colored German drinking glasses, silver cream ewers and spoons and the queen's own strawberry dish of white glazed porcelain, a strawberry plant in natural colors twining about it. Above the triple window hangs on a shield the head of Queen Elizabeth IV., which, owned by his present majesty, gained the champion prize at the 1874 cattle show. Underneath is a bronze statuette of a Jersey champion bull, presented by the king. A small fountain supported by a china stork keeps the place refreshingly cool.

In the adjoining butter room, with its walls of plain blue glazed tiles, is a wonderful collection of china animals, including bulls, dogs, cats and hares, as well as almost every sort of jug. Devonshire cream and butter and cream cheeses are made for the supply of Sandringham or Marlborough house.

Her majesty's own private tea room is tastefully furnished and decorated, and contains some valuable china and artistically painted tiles and plaques. A bust of her late majesty occupies a prominent position on the marble mantelpiece, which is draped with olive velvet and surmounted by a mirror in a massive ornate frame, surrounded by rich blue plates and vases. This lovely apartment is a favorite resort of the royal family for "5 o'clock" with fruit from the neighboring gardens.

## THE COW QUESTION.

It does seem difficult to prevent misunderstandings. Again and again have I defined my position on the cow question, and even now many do not seem to understand it, says Prof. Shaw. At the risk of being monotonous to some readers, I will again state my views on this great question. I do not want to be misunderstood. The following is my creed: I believe in the straight dairy cow. The dairymen, whose chief interest lies in milk and who do not care much for the beef product which he may get, ought to keep this cow. She will always occupy a very important place among the herds of the nation. The men who are thus employed should not only keep this cow, but they should also improve her in the lines of milk giving, quantity and quality considered to the greatest extent possible consistent with the retention of good stamina.

In the Model Dairy the question of net profit is the only one considered in the awards, consequently the question of greatest production has never influenced the work. The cost of production is always apparent in the Model Dairy, and it was not taken into consideration in the Holstein test.

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During the experiments at the Model Dairy they have won a great many favorable comments. Coming here as strangers, the American farmers already feel that they have made a new and valuable acquaintance.

I believe in a straight beef cow. She should possess beef form in high excellence. This cow is not to be milked, but is to suckle her calf. Her place is on the range. She should also be kept on the large farm where it is not practicable to milk the cows that may be kept.

I also believe in the cow between these two extremes. A large, roomy cow of nice form that will be a good milker, that will fatten nicely when dry, and that will, when properly mated, produce a calf that will grow large and that will make good beef. The place for this cow is the arable farm or good production, in which the farmer is desirous of securing a good supply of both milk and meat. The poor milkers that may from time to time show themselves ought to be turned off for beef as soon as their poor milking qualities are known. What is there in the above that is at all unkind or unfair to the interests of straight dairy cattle?

## THE MODEL DAIRY COW TEST.

Report of Pan-American Model Dairy Test Giving Totals of Each Herd Complete From the Commencement of the Test May 1st Up to and Including the Week Ending September 10, 1901.

Name of Herd.	Total Cost	Feed.	Profit.
Lbs. MILK.	Value Per Lb.	Value Per Lb.	Value Per Lb.
Holstein	29487.8	1088.67	274.39
Shorthorns	22310.0	1008.35	261.76
French Canadians	1985.2	889.92	217.48
Guernseys	21244.1	1117.86	279.46
Ayrshires	26806.6	1077.60	270.39
Poiled Jerseys	15280.2	846.97	211.64
Jerseys	20224.2	1086.59	217.88
Dutch Belted	19216.4	184.33	23.45
Red Polis	22326.4	1086.44	256.59
Brown Swiss	2418.56	1005.48	251.36

## THE BUTTER SCORE, POSTED SEPT. 12.

Flavor	Grain	Color	Finish	Total



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# Horticulture

SOUTH MISSOURI FRUIT GROWERS.

Seymour, Mo., Fruit Growers met Saturday, September 14, 1901, and elected the following officers: T. C. Love, President; Col. Childress, Vice President; L. S. Witmer, Secretary; F. A. Williams, Corresponding Secretary; T. J. Smith, Treasurer.

One hundred postal cards were ordered printed for distribution among fruit growers and others. It was decided that we gather and barrel our Jonathan apples the coming week, deposit in Higgins hall, from Saturday, September 21 to 23, for buyers to inspect and make us offerings, and we will send to cold storage. The next meeting will be held Saturday, Sept. 21, 1901, at 2 o'clock p. m., and every Saturday during the season.

RESOLUTIONS.—The following resolutions were adopted:

Resolved, By the Seymour Fruit Growers' Association, that it is the sense of this society that it was the purpose and intention of the state legislature, when it established the fruit experiment station at Mountain Grove, and provided for its maintenance by liberal appropriations from the state treasury, that it should be managed and controlled by a board of managers to consist of men engaged in the fruit growing industry of the state, and that when the state legislature established an agricultural college and agricultural experiment station and provided that the same should be under the management and control of the board of curators of the state university, it was expected and intended that there would be a fair representation of farmers appointed on said board of curators; therefore be it

Resolved, By this association, that our governor be respectfully requested to fill all vacancies that may occur in the future upon the board of curators of the state university by the appointment of men engaged in agricultural pursuits, until at least three of said board of nine members consist of farmers, and that all vacancies that may occur on the board of managers of its fruit experiment station at Mountain Grove be filled by the appointment of men engaged in horticulture until the entire board consists of such men.

Resolved, That a copy of these resolutions be furnished Governor Dockery, and also to the "Practical Fruit Grower" and COLMAN'S RURAL WORLD for publication, and that all agricultural societies in the state, and all individuals in these pursuits be invited to join in this petition to the governor.

J. W. NELSON NOMINATED.—In view of the fact that J. W. Nelson, of Marshall, president of the Webster County Horticultural Society, is one of Webster county's most scientific as well as practical fruit growers, as evidenced by methods of cultivation and management of his model fruit farm in this, the banner fruit growing county in the state, all of which make him peculiarly fitted for a place on the board of managers of the Mountain Grove Fruit Experimental Station; therefore be it

Resolved, By the Seymour Fruit Growers' Association, that the governor be requested to appoint him to fill the first vacancy on the board.

Resolved, That a copy of this resolution be forwarded to Mr. Nelson with a request that he at once become a candidate for that position and forward this with his application.

Resolved, That a copy of this resolution be forwarded to the "Practical Fruit Grower," COLMAN'S RURAL WORLD and all Webster county papers for publication.

T. C. LOVE, President.

L. S. WITMER, Secretary.

## CALIMYRNA FIGS.

Editor RURAL WORLD: There is nothing new under the sun except the name Calimyrna, which means the old-time Smyrna fig transplanted and propagated in the fertile soil and congenial climate of California. Californians have long boasted of their own vine and fig tree; a pardonable pride as to the vine and the fruit thereof, but the fig, though valuable, has never given complete satisfaction. This was because the growers knew it was not the very best of its kind and the people of California have never consented to accept second place in anything. As the orange was perfected by the introduction of the navel variety, so is the fig brought to a satisfactory condition by the successful cultivation of the Smyrna fig.

Ardia figs have been grown in California for a great many years, the varieties of which are legion and the commercial value at the present time is also considerable. Attempts to grow the Smyrna fig in California dates from the year 1855, when Mr. F. Roeding of Fresno County imported from Asia Minor cuttings of the very best varieties. It was comparatively easy to import Smyrna fig trees, but exceedingly difficult to gather the fruit, owing to the fact that the fruit would not mature, but persisted in dropping off the trees when it was about one-third grown. The greatest credit is due Mr. Roeding for his persistence in keeping up his experiments and investigations under the most discouraging conditions, although he was finally assisted materially by the Department of Agriculture at Washington, and the history of the enterprise—the successes and the failures—makes very interesting reading.

In the Fresno County exhibit in the Horticulture Building at the Pan-American Exposition may be seen an exhibit of Calimyrna figs that were grown and packed by Mr. Roeding. It is in charge of Charles F. Wyer, who is ready and willing to dispense considerable information in regard to this promising infant American industry. Mr. Wyer is loyal to Fresno County and is very positive that there is some specific virtue in the soil and atmosphere of that favored locality that rendered success possible. He has a few very tasty specimens that he sometimes uses as sugar-coated clinicians to his arguments, and I know of at least one instance in which they proved effectual.

The statement is often made that the fig grows without a blossom, but this is not strictly true; in fact, it is very far from being true, as there are a great many blossoms to every fig, but the blossoms are contained within the fig and in order to see them it is necessary to cut the fig open. It is indeed a question whether the fig itself is a fruit or a composite flower. Each perfect seed in a fig represents a single flower, and it is these mature fertilized seeds, in which the germ is fully developed, that gives the fig its flavor. The best imported Smyrna figs possessed a flavor that we were unable to equal; we were also unable to discover the reason, and were about to give up when our advanced scientific botanists, from a se-

Do you know what lamp chimneys are for?

MACBETH'S are forever, unless some accident happens.

My name on every one.

If you'll send your address, I'll send you the Index to Lamps and their Chimneys, to tell you what number to get for your lamp.

MACBETH, Pittsburgh.

ries of experiments that involved a great deal of patient investigation, coupled with considerable expense, discovered that the Smyrna figs did not properly mature in California, because they contained only female blossoms. It was also discovered that the Blastophaga peacocke should have been consulted in the matter.

Instead of the fig growing without a blossom, there are four distinct kinds of blossoms found in the fig, namely: Male, female, gall and male flowers. The first three are found in the Capri or wild fig, but because they lack the female or flavoring seed flowers, they cannot be fertilized, and in consequence of this they fail to develop flavor sufficient to render them valuable. For the same reason they could not be improved upon, as is the case with most wild fruits. The Capri or wild fig possessed the pollen necessary to fertilize the Smyrna varieties, but there was no means to carry it, and the little Blastophaga was imported for this very purpose.

These microscopic insects will live and propagate in the Capri fig, but cannot do so in the Smyrna fig; for this reason it is necessary to grow a clump of Capri or wild fig near the commercial variety. When the insect is developed the male cuts the way for the female to escape, when she immediately flies about seeking a place to deposit her eggs. While a great many of these insects are gregarious enough to select the Capri fig for this purpose, thereby producing their species, a certain number, owing to nature's caprice, make the mistake of entering the Smyrna fig, thereby losing their lives and progeny, but rendering a perfect fruiting of this variety possible; not by depositing their eggs, but by unintentionally carrying the male pollen from the Capri figs, that by an apparent accident adheres to their bodies and wings.

PERISHABLE FRUITS FOR EUROPE.

The U. S. Department of Agriculture has made it one of its missions to create a foreign market for agricultural products and to study the best methods of storing and shipping the same. At present the experts who have the subject in charge are testing the shipping of some of the perishable fruits that are raised in the United States.

Mr. W. A. Taylor of the Department of Agriculture says that while there is extensive shipping of California fruits to Europe, the eastern states have not enjoyed that privilege to such an extent. He says it is the opinion of the department that Europe will furnish great market for such fruits if they can be properly shipped.

The subject is certainly of such importance as to warrant a thorough investigation by the government, and on Sept. 7 the first trial shipment of Bartlett pears was sent from New York on the Atlantic Transport Co.'s steamer Minneapolis to London. The fruit was gathered at Barker, N. Y., and prepared for shipment under the direction of Mr. H. P. Gould, assistant pomologist of the department, and Mr. Chas. Forster, who represents a London house. The consignment consisted of two barrels, 37 full boxes and 29 half boxes of fruit, in all 338 packages. Half the fruit was wrapped in waxed paper, the remainder was not wrapped. The fruit was handled with the greatest care and covered with tarpaulin to protect it from the weather. It is kept on shipboard at 36 degs. F. When it reaches London some will be put on sale at once, while the rest will be stored. This experiment will be followed by others.

A NEW FRUIT PACKAGE.

The fruit package is one of the most important items in the fruit business. The fruit grower must be up-to-date in the matter of packages or he is behind the times on the whole affair of handling fruit. Much depends on a good packing. It is a maxim in some markets that "the package sells the fruit." One ought to be careful about carrying that theory too far, but there is a good deal in it, nevertheless, writes Prof. F. A. Waugh in the "Kansas Farmer."

The newest and most interesting packaging in the American fruit trade is probably the so-called "six-basket carrier."

This first came into extensive use in

about four years ago; but it did not

become firmly established until it was taken

up by the Georgia peach shippers. It

proved to be peculiarly suited to their

needs, and it is now frequently seen in

all the northern markets, at least those

east of Chicago. According to my obser-

vation and information this package is

not yet so well known in the west, but I

feel sure that it is destined to be a favor-

ite there.

The six-basket carrier consists of a

crate approximately 14 inches deep, 14

inches wide, and 24 inches long. This is

made of light slats nailed to two lightly

framed end pieces. Inside this crate there

are six small baskets without handles

made of thin wood veneer, and each hold-

ing about a half peck of fruit. The

entire crate, therefore, holds about three

pecks, or a trifle over. The baskets are

placed in the crate in two layers. First

three baskets are put in and then a thin

slat support is put on top of them, thus

carrying the upper tier of three baskets

without injuring the fruit below.

There are many advantages to this

package. First, it is easily packed. Sec-

ond, it carries the fruit in the most per-

fect condition of any package yet intro-

duced into the general market. Third,

it displays the fruit to great advantage

when the package is opened in the mar-

ket. Fourth, the little half-peck basket

offers just about the quantity of fruit to

tempt the average buyer. It is neat and

handy to take home.

The six-basket carrier is used prin-

cipally for peaches and plums, but is suit-

able for all fruits of that general nature.

Mr. J. H. Hale has recently tried a slight

modification of this package for shipping

plums. He used nine shallow baskets in

three tiers in place of the usual six bask-

ets in two tiers. Mr. Hale and many other

shippers, especially in Georgia and No-

rth and South Carolina use the same

crate without any baskets for shipping

muskmelons (which they persist in calling

calaboucos).

This package costs a trifle more than

the old-fashioned peach and plum crate,

or than the modern Delaware peach bas-

ket. The manufacturers have not quite

settled down to a uniform price, but \$10

to \$15 a hundred is about the present quo-

tation. The fact that the six-basket car-

rier costs more will make some shippers

hesitate about adopting it. Poor fruit

will not pay for the most expensive pack-

age. The better display which the six-

basket carrier offers in the market is

a small advantage to wormy, bruised and

rotting peaches. The carrier is, therefore,

naturally a package for fancy fruit. It is

especially desirable, too, for making long

shipments. When it comes to shipping

peaches from Kansas, Oklahoma and

Texas to Chicago and Denver, the six-

basket carrier is sure to find favor.

## IMPROVING THE APPLE CROP.

The American apple crop is rapidly becoming the leading crop of the United States so far as actual returns are concerned, and our exports of these fruits are growing larger and more valuable every year. No grain or other farm product is more generally or more widely cultivated than the apple, writes S. W. Chambers in "Michigan Farmer." This fruit is by all odds our national fruit. It is raised from Maine to Florida now, and from the Atlantic to the Pacific. It is eaten in every American home almost the year round, and England and Germany are rapidly imitating us in the matter of consumption. Our apples sell better in the European markets than any of the continental fruits, and the prices thus obtained help to swell the returns to our farmers on lands where wheat and corn fall through drouth, and where these cereals cannot be raised successfully.

The question of improving the quality of our apples, and increasing the yield, is one that more farmers are actually interested in than that of improving corn or wheat. Injury to the apple crop may not cause such ruinous disaster to a few states as corn or wheat, but it will reach a wider number of farmers in the whole country.

One of the perplexing questions in apple growing is the dropping off of fruits when very small or half grown. The waste of apples from this cause alone is enormous. Spraying will not stop the loss, for the cause seems to be deeper than the attacks of insects and blights. There is a theory that the blossoms are not properly fertilized, and that the fruit cannot consequently ever reach maturity. The apples are doomed to fall off when half grown and be wasted. Some experiments have been made recently that help to confirm this theory. In a large orchard where the dropping off was a serious handicap to successful apple raising, the attempt was made to prove or disprove this theory. Right in the midst of the orchard, which was of fifty acres, a score of bee hives were located. The bees literally swarmed in the orchard at blooming time, and the insects buzzed around the blossoms in swarms. There was little more done to the orchard other than that of ordinary pruning. At the year the fruit yield was from 10 to 20 per cent higher than common. The second and third year the same practice was kept up, and the increase was even more apparent. In that orchard at least the apple trees were apparently helped by the presence of the bees.

Whether or not it would prove true in all cases is quite another question. It is a matter, however, that deserves some more extended experiment, for if bees in the orchard will perform such a useful function to our apple crop they should be raised wherever commercial apple growing is an important industry.

These little insects were not colonized in California without considerable difficulty, as the first attempts are remembered as signal failures. Persistence in this respect, however, finally received a suitable reward, and the American cultivation of what is now the best flavored and most valuable commercial fig to be found in any country, was rendered possible.

There is something in the climate or soil, or both, that has improved the fig by transplanting it in its foster home. It is not only sweeter than the Smyrna, but it has in some mysterious manner lost the peculiar acrid flavor that is objectionable in the Turkish product.

Resolved, That a copy of this resolution be forwarded to Mr. Nelson with a request that he at once become a candidate for that position and forward this with his application.

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T. C. LOVE, President.

L. S. WITMER, Secretary.

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# Live Stock

DATE CLAIMS FOR LIVE STOCK SALES.

Oct. 8.—F. M. & O. B. Cain and Jas. Novinger & Sons, Novinger, Mo., at Kirkville, Mo.—A. L. Johnson and R. G. Robb & Son, Morning Sun, Iowa, Shorthorns.

Oct. 16-17, 1901.—Estate G. W. Kennedy, Oct. 25.—National Galloway sale at Kansas City, under the auspices of the American Galloway Breeders' Association, Douglas, Ill., Shorthorns.

Nov. 5-6.—B. O. Cowan, New Point, Mo., and W. T. & H. R. Clay, Platteburg, Mo., at Kansas City, Shorthorns.

Dec. 10-11, 1901.—Combination sale Shorthorn Cattle Steurgen, Mo. J. J. Littrell, J. F. Keith and E. S. Stewart, Steurgen, Mo., and J. H. Cottingham, of Clark, Mo.

Nov. 14-15.—Sale of Berkshires and Jersey cattle, Biltmore Farm Annual, Biltmore, N. C.

Nov. 19, 1901.—J. A. Novinger & Sons, Shorthorns, Kirksville, Mo.

Dec. 10, 11, 12, and 13.—Kirk B. Armour and Jas. A. Funkhouser, at Kansas City, Hereford cattle.

Dec. 15-16, C. D. Bellamy, Maryville, Mo., at South Omaha, Shorthorns.

Dec. 18-19, 1901.—Gudgel & Simpson, C. A. Stannard and Scott & March, Herefords, at Fort Worth, Tex.

January 26 to 28, 1902.—Seth's annual Criterion Sale at Kansas City.

Jan. 14, 15 and 16.—Cornish & Patten, Osborn, Mo., and others, at Kansas City, Hereford cattle.

Feb. 11-12, 1902.—Redhead Anstey, Boyles and others at South Omaha, Neb., Hereford cattle.

March 1-2, 1902.—M. Forbes & Son, Henry, Ill.; F. Prather, Williamsburg, Ill.; S. E. Prather & Son, Springfield, Ill.; C. E. Dustin & Son, Summer Hill, Ill.; T. J. Wornall, Mayberry, Mo., and others, at South Omaha, Shorthorns.

March 11-12, 1902.—Nichols, West Liberty, Iowa, Shorthorns.

June 15.—C. E. McLane, Danville, Ind., at Indianapolis Double Standard Polled.

The "National Hereford Exchange" under management of T. F. B. Bothwell, as follows:

Nov. 20-21, 1901.—East St. Louis.

Nov. 21-22, 1901.—Chicago.

April 25-26, 1902.—Kansas City.

May 27-28, 1902.—Omaha.

June 24-25, 1902.—Chicago.

POLAND CHINAS.

Sale at Ill. Fair Grounds, Springfield, Ill.

Oct. 7-11—Kansas City Show and Sale.

Oct. 12-16, T. W. Williams, Russell, Mo., Orlon, Mo., and others, at Kansas City Show and Sale, W. T. McIntire, Secy. and Manager, Stock Yards, Kansas City, Mo.

Oct. 21-22, E. Lewis, Memphis, Tenn.

Oct. 22-23, E. Axine, Oak Grove, Mo.

Oct. 23-24, T. Robinson, Bates City, Mo.

Oct. 24-25, F. H. Schoeler, Rockport, Mo.

Oct. 25-26, N. Winn & Son, Kansas City, Mo.

Oct. 26-27, H. Martin, Kansas City, Mo.

Oct. 28-29, C. E. Pogue, Findlay, Ill.

Nov. 4-5, W. J. William, Cisco, Ill.

Nov. 5-6, H. O. Minnis, Edinburg, Ill.

Nov. 5-7, D. J. Waiters, Kumler, Ill.

Nov. 8-9, R. W. Lovelace, Gibson City, Ill.

Nov. 12-13, A. G. Woodbury, Danville, Ill.

Nov. 13-14, E. H. Wane, Douglas, Ill.

Nov. 14-15, L. J. Jones, Onawa, Ill.

Nov. 15-16, W. J. McKibben, Garden Prairie, Ill.

Nov. 19-20, Victor Wiley, Fuller, Ill.

Nov. 20-21, H. G. Davis, Waukesha, Ill.

Nov. 21-22, T. H. Herkorn, Ill.

Oct. 22-23, Kansas City, Mo., Galloway sale.

ABERDEEN ANGUS CATTLE.

Oct. 17-18—National sale, W. C. McGavock, mgr., Kansas City.

Dec. 3-6—International sale, W. C. McGavock, mgr., Chicago.

Feb. 4-6—Combination sale, W. C. McGavock, mgr., Chicago.

April 10-11—Combination sale, W. C. McGavock, mgr., Kansas City.

June 10-11—Combination sale, W. C. McGavock, mgr., Chicago.

NATIONAL SHORTHORN SHOWS AND SALES.

Oct. 14-15—Kansas City, Mo.

Nov. 15—Kansas City, Mo.; Messrs. B. B. and H. T. Grooms of Staked Plains Farm of Panhandle, Tex.

Nov. 7—At Steurgen, Mo.; by Messrs. J. J. Littrell, Dr. J. F. Keith, E. S. Stewart, all of Steurgen, and J. H. Cottingham, of Clark, Mo.

Dec. 2-7—Chicago, Ill.

NATIONAL HEREFORD SHOWS.

Oct. 16-17—Kansas City, Mo.

Dec. 2-7—Chicago, Ill.

NATIONAL HEREFORD SALES.

Oct. 22-23—Kansas City, Mo.

Dec. 3-4—Chicago.

CATTLE KING RANKIN'S PLAN.

St. Joseph, Mo., Sept. 29.—The heavy rush of cattle to the live stock markets from all points in the West has been unprecedented this fall. But if the ideas of David Rankin, the Western cattle king, are generally accepted, the rush may abate at some time in the near future.

Mr. Rankin while in the city to-day said he never had placed upon the market live stock that was not fit to command some where near top prices. This he proposes to do the present fall and winter, notwithstanding the fact that feed of the ordinary sort is considered entirely too expensive to warrant any experiment.

He says he will feed for the markets of the present and coming year with as much confidence in handsome profits as he ever has in his life. Briefly stated, Mr. Rankin has just ordered 1,000 tons of cottonseed meal from points in Texas. This will constitute the principal ingredient of a cattle food which will not only take the place of corn, but which will put a superior quality of meat upon the bones of live stock in a much shorter time than corn could possibly do.

Mr. Rankin is not only known as one of the greatest cattle kings, but he is in addition the greatest farmer in the world. His home is in Tarkio, Mo., and in the vicinity he actually farms more than 100,000 acres of the finest agricultural soil to be found in the Plateau purchase. The present fall and coming winter Mr. Rankin will probably feed in the neighborhood of 20,000 head of cattle.

It is a matter of remark that during the next few months feeders will draw both cattle and feed from the great Southwestern state of Texas, a thing never done before.

F. W. SIMPSON of Nugent, Kentucky, opened the Louisville Hereford sale by getting the bull, Earl of Clarence 4th, at \$1,005. The animal was owned in the Blue Grass State and Mr. Simpson did not propose to let him get out of Old Kentucky.—Live Stock World.

PATENT GROOVED

Tire Wheels

For Farm Wagons Any Size to fit any Slein. MADE ONLY BY THE NAVANA METAL WHEEL CO. Ha'-in. III.

We are the largest manufacturers of steel wheels and low down trucks in the U. S.

EST. Writs for Prices.

## KIRKLAND B. ARMOUR DEAD.

Live stock dealers throughout the United States will be pained to learn of the death of Kirkland B. Armour, which occurred at his home in Kansas City last Friday, Sept. 27. Mr. Armour was only 47 years old, and in the comparatively few years that he has given to the pure bred cattle business he had taken high rank as a breeder and importer of Hereford cattle. He had been spared to a reasonable age it would seem as if in the next 20 or 25 years he would have done the pure bred cattle interests of this country incalculable good.

Mr. Armour was born at Stockbridge, N. Y., in 1854. He was the son of Andrew Watson Armour, who was for many years conspicuously identified with the Armour interests in Kansas City, and entered the packing house firm in 1872. After the death of his father he was made vice-president and general manager of the Kansas City branch, and upon the death, in 1889, of S. B. Armour, he succeeded to the presidency. He was in the directorates of half a dozen Kansas City concerns.

Mr. Armour had on his farm, near Kansas City, some of the finest stock in the United States, included among them being many imports from the English royal herd. He was twice president of the National Hereford Breeders' Association, and at the presidency. He was in the directorates of half a dozen Kansas City concerns.

CHARLES SINNARD of Carrollton, Mo., was on the Kansas City market last week with 51 black cattle which weighed 1,340 pounds, and sold to Schwartze & Sulzberger at \$8.30. These cattle had been fed by John W. Bailey since last January and showed unusual good care and attention. Mr. Bailey is one of the most prominent feeders of Carroll County.—Telegraph.

## STOCK NOTES.

J. H. MILLER, Peru, Ind., took all the awards on Polled Durhams at the Pan-American Exposition.

CHARLES SINNARD of Carrollton, Mo., was on the Kansas City market last week with 51 black cattle which weighed 1,340 pounds, and sold to Schwartze & Sulzberger at \$8.30. These cattle had been fed by John W. Bailey since last January and showed unusual good care and attention. Mr. Bailey is one of the most prominent feeders of Carroll County.—Telegraph.

CORRECTIONS.—In the report of the cattle awards at the Missouri State Fair a mistake was made in stating that the first prize on two-year-old Shorthorns went to T. J. Wornall. It was awarded to Geo. Bothwell on imp. Black Watch.

In the list of awards on jacks, a mistake was made in an owner's name. It should have been Geo. H. Rider & Son, Dumville, Mo., not Riderphen, as printed.

THE LOUISVILLE, KY., INTERSTATE FAIR, held Sept. 23 to 27, had a splendid live stock exhibition for the Kentucky Live Stock Breeders' Association deserves much credit for theiruring efforts in that direction. The association is composed of the following breeders of the state: T. L. Hornsby, Eminence, president; John G. Roach, Louisville, vice-president; J. L. Ormsby, Louisville, treasurer; M. W. Neal, Louisville, secretary. Directors are: W. H. Giltner, Eminence; Caldwell Norton, Louisville; R. M. Smith, Shelbyville; Gottlieb Lettner, Harrods Creek; G. N. Lyden, Webster; L. L. Dorsey, Amherstburg, Ont.; F. B. Gudgel & Simpson, Independence, Mo., with Dandy Rex 71689; second, T. F. B. Bothwell, Chillicothe, Mo., with Imp. Proven 94020; third, W. H. Curtice, Eminence, Ky., with Prince Rupert 79689; fourth, T. F. B. Bothwell, with Beauchamp 93977; fifth, Stewart & Hutchison, Louisville, vice-president; John G. Roach, Louisville, treasurer; M. W. Neal, Louisville, secretary. 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# Horseman



Good horses are so scarce right at present that many export dealers are confining themselves to the home trade. It does not pay to export horses that will yield a sure profit in New York, Boston or Buffalo. Poor horses are not wanted, at any price, and lose the shipper money every time he touches them.

We are pleased to learn that Mr. J. B. Buck of Bloomfield, Mo., has become the owner of Correggio 3340. He was bred by Buck Currie of Lexington, Ky., was foaled in 1898, sired by Ashland Wilkes and his dam was Murka, by Anteet 7688, son of Electoneer. Correggio is blood bay, 15.2 hands, and is said to be a horse of fine style and action.

The British officers in command of the agency in this country for the purchase and shipment of mules and horses to the British army in South Africa, report that they have sent to Cape Town 109 cargoes, consisting of 115,946 mules and horses, about equally divided between the two, the animals costing \$11,546.615. The provisions for the trips to Africa brought the total cost up to \$15,000,000.

Only two Adells have been trained and started in races, viz.: Adabella, 2:35%, winner of the two-year-old stake at Readville, and Rowellian, 2:35%, winner of the Horse Review \$6,000 stake at Hartford last week. Rowellian has been timed the last half of a winning heat in 1:04. Adabella has no engagements this year, has been worked lightly, but C. H. Baldwin drove her an easy mile the other day at Glen Falls in 2:17%. These are simply forerunners of Adel's quality as a sire.

Again the buckskin gelding, Linsay, by Esign, has demonstrated his superior trotting qualities over the horses of France and Switzerland. At the August meeting held at Morges, August 11th, Mons. Lison, owner and driver of Linsay, won the first prize of 500 francs, an object of art and diploma, by defeating Picot and Jacouer over a 3,000 metre course, with a 150 metre handicap, for the American trotter. He not only won the race, but led at the post by 100 metres. He covered the distance in 4:05, which is reported as the best time ever made in France or England.

The horse can conveniently eat for twenty hours out of the twenty-four. A horse which is in good health has a good appetite at all times, and is able to stand plenty of work and is rarely on the sick list. To be a good feeder, especially on a journey, is a great recommendation in the opinion of every good judge of horseflesh. The reason of a horse being such a constant eater is that its stomach is really small in proportion to the size of its body, and therefore it requires feeding often, not less than four times a day, two of which should be early in the morning and at night, while hay should in the stall be always within its reach.—London Tit-Bits.

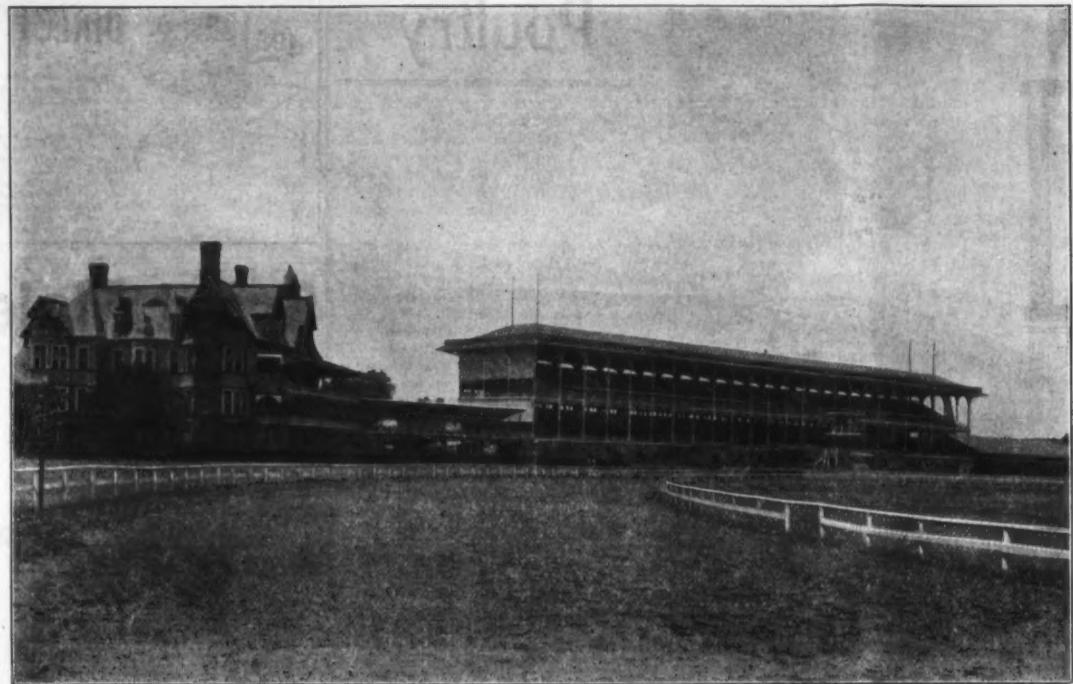
The Lexington, Ky., "Herald" says that Hon. W. C. Whitney has secured options on eight different farms, embracing 2,600 acres, situated in Fayette County, Kentucky. The land is located about six miles from the city of Lexington and is bordered by the Richmond, Winchester and Todd turnpikes. The land is said to be thoroughly watered, and splendidly adapted for the purpose of a great breeding estate. With the incomparable Hanover at the head of this magnificent establishment surrounded by a band of broodmares of as high class as the best experience has been able to select when fully completed, Mr. Whitney will possess one of the best and most successful thoroughbred nurseries in the world.

When Maud S. trotted a mile on the Cleveland track in 2:08% the performance created much talk, and there was no lack of wise people who declared that the speed limit of the trotter had been reached. They even undertook to prove what they said by figures. They first calculated the utmost length of a trotter's stride, and by applying the watch they made an exhibit that was truly puzzling. Then Martha Wilkes came along and trotted a mile in 2:08, and these mathematicians marveled greatly. Then came Kremlin, 2:07%; Blingen, 2:06%; Fantasy, 2:06%; Directum, 2:05%; Nancy Hanks, 2:04; Alix, 2:03%; The Abbot, 2:03%, and finally Crescens, 2:02%, and still they wonder. But why marvel? Nobody is wise enough to measure the limit of speed in the game American trotter.

Memphis, Tenn., is an enterprising city and is widely famous for the hospitality of its citizens. It is several hundred miles further south than Lexington, and it is only in exceptional years that frost is seen in that vicinity earlier than the middle of November, says the "Stock Farm." At the conclusion of the Lexington trotting races the eyes of the turf world will be turned toward the city on the Chickasaw Bluff. The new track has been completed, and the meeting there is scheduled for six days, beginning October 21. The early closing events filled to the satisfaction of the management, and to complete the program a list of twelve class races are announced to close October 12. Extensive preparations have been made for this inaugural meeting at Tennessee's commercial metropolis, and no expense has been spared in providing for the comfort and convenience of the public. The track is constructed on a plan especially designed to aid the trotter in attaining his greatest speed, and is an ideal one from whatever point it is viewed, while the grandstand, barns and other appointments are in keeping with the impressively handsome surroundings.

## Horse Owners! Use GOMBAULT'S Caustic Balsam

The Safest, Best BLISTER ever made. Takes the place of all liniments for minor or severe actions. Used by the U.S. Cavalry, Dragoons and Cavalry. SUPERSEDES ALL CAUTERY OR FIRE. Price \$1.50 per bottle. Sold by druggists, or by mail. Send for sample, with full directions for its use. Send for sample, with full directions for its use. Send for sample, with full directions for its use. THE LAWRENCE-WILLIAMS CO., Cleveland, O.



RACE COURSE-CLUB HOUSE AND GRAND STAND, ST. LOUIS FAIR GROUNDS.

### BLUE BULL NOTES.

By L. E. Clement.

Schaeble Girl equals Anagallis, by Prodigal in her first two foals, and as a dam at seven years of age.

She equals Lady Pepper in her first three foals and as a dam at eight years of age. Her fourth, Fleetwood, 2:15%, in the third heat, equaling Lady Pepper's fastest trotting record made when Coral was eight years of age.

H. B. Henderson of Columbus, Mo., has a daughter of Counsellor, out of Molony Bawn, dam of Robert Russell, 2:15%, and Walter Wilkes, 2:14%. This mare should make a great brood mare. Her oldest is a nice looking yearling filly by Anteros, and her second a clean cut headed sucker by Integrity.

Griffin in the "Turf, Field & Farm" is of foundation sires who are not now adding new performers, says: Blue Bull sired the dams Floradora, 2:18%; George Castle, 2:11 1/2; and Rossie, 2:23 1/2. Add Winfield Stratton, 2:13 1/2, and Blue Bull and George Wilkes are again on even terms as sires of dams.

A breeder who starts with ten brood mares and raises seven foals a year on an average is liable to have some forty-five head of horse stock on his hands before his first crop of foals is in marketable condition. This seems a long time to wait for any returns. Occasionally a youngster of so much promise may be raised that a sale may be made at an earlier age, but it will not be safe to count on that until after a breeder has established the reputation of raising race winners, which is not likely to be done in the first five years.

Another grave mistake that most beginners are liable to make is in buying mares of an inferior quality. It is better to start with three first class mares than with a dozen of medium quality. The average small breeder of moderate means should aim to produce size, beauty and style as well as speed. Then, if he fails to get speed, as he surely will at least nine times out of ten, those which are not fast enough for the track or speedway can be sold at a fair price for carriage purposes and general use.

In making a judicious selection the breeder must be familiar with pedigrees; and must also have some knowledge of the characteristics of all the ancestors for several generations back. Many breeders have been disappointed by mating a good-sized mare with a good-sized horse and getting an animal that has been small at maturity. In many cases this has been due to the fact that though the sire and dam were of good size, their ancestors, or some of them, at least, have been small, or were from families in which a general lack of size has been one of the characteristics. As a rule a small sized mare whose ancestors were good size, and were from families that were, as a rule, noted for good size, will produce a larger proportion of good sized animals than a large mare the majority of whose ancestors were small. Most of the fastest trotters have been produced by mares rather below than above the average in size. If extreme speed alone were desired the matter of size would be of secondary importance. The breeder in moderate circumstances cannot afford to breed solely for speed. Leave that to meat.

The racing at the Missouri State Fair should be as good as is seen at any state fair in the United States. It can't be done on \$500 stakes and purses. Nothing attracts the attention of breeders like a futurity. Six days racing at the regular price would call for \$2 gate money from every adult person that goes through the gates. A futurity stake to close March 1 with \$6 paid, March 1, to include a season ticket for the fair, with a cash payment of \$6 more Nov. 1 and 5 per cent of the guaranteed amount paid one-half March 1 in the year of the race, and the other half the night before the race. Two-thirds of the money to go to the trotters and trot as three-year-olds, and one-third to the pacers and pace as two-year-olds. This would bring out the colts, entice the people and swell the gate receipts.

Then open six early closing stakes one for each day of the week for \$1,000 for 2:35 trotters and pacers, to \$5,000 for 2:30 trotters and pacers, and more people will see the poultry, dairy, swine, fruit and mechanical displays, than will enter the grounds of any other state fair in the country. Now is the time to work when we are not hurried. We have the track, we have the buildings, we have the location and in order to make money and make a creditable showing we must get the attractions and get them before the people.

In 1902 we should have as clean a week's sport, and as fast racing as Readville, Lexington or Detroit. Detroit gets the early starts and the horses before they become stale. Lexington gets the best colt races because the money is put in sight for the colts. Men will be figuring the next day after the Lexington race, close for certain material for 1902, Transylvania and a portion of the annual distribution of \$10,000. Providence tried the experiment in 1901 of \$10,000 in one stake for pacers. Will she try it again? If she does others will fall into line. Eternal vigilance is the price of liberty, and watchfulness in time and early preparation, will give us one of the greatest

### STATE FAIRS OF 1902—and still continue to improve for years to come. I think Missouri has had her most insignificant meeting as a State Fair, and circumstances considered it was grand.

### MISTAKES OF BEGINNERS.

Most persons are liable to make mistakes when first entering upon the horse-breeding business. Perhaps the most frequent one is stocking the farm with too many brood mares on the start, says the "Horse Breeder." Very few avoid this mistake, as very many have learned to their sorrow a few years later. The small breeder in moderate circumstances who breeds for profit should first determine how many head of stock his farm is capable of supporting, and his stables and paddocks are capable of accommodating. He should make due allowance for barren mares each year, which will generally average about three in every ten. He should next consider that as rule horses raised in the North are not in demand in the market until five years old.

The pacing brigade big four is represented by Audubon Boy, 2:06, by J. J. Audubon, dam Flaxy, by Bourbon Wilkes; Dan Patch, 2:04, by Joe Patchen, dam Zeilia, by Wilkesberry; Shadow Chimes, 2:06%, by Chimes; dam Charmer, by Mambrino King, and New Richmond, 2:08%, by Brown Hal, dam Jewess, by W. V. Richmond.

The eight Dan Patch and Audubon

Boy have the double cross of Wilkes blood; Country Jay, the Wilkes-Electioneer cross; Neva Simmons and Onward Silver, the Wilkes-Hambetonian strains. New Richmond, Eleata, and Shadow Chimes, represent Brown Hal, Mambrino King and Kentucky Prince. Country Jay is by Jay Hawker, 2:14%, by Jay Bird, he by George Wilkes. His dam (S. T. B.) Sub Rosa, 2:22%, is by Danville, 656, by Electioneer, granddam Aurora, 2:27; by John Nelson, and great granddam the Lamott mare, giving Country Jay the Wilkes-Electioneer cross.

Neva Simmons was sired by Simmons, 2:28, by George Wilkes, dam Neva, by Squire Talmage, son of Hambletonian, 10; granddam by Tom Traveler, son of Tom Crowder (Brown's); great-granddam by Sorrel Tom, he by (Shawhan's) Tom.

Onward Silver was sired by Onward, 2:25%, son of George Wilkes, dam Sylvan Maid, by Aberdeen, 27; by Hambletonian, 10; grandson by Tom Traveler, son of Tom Crowder (Brown's); great-grandson by Sorrel Tom, he by (Shawhan's) Tom.

Audubon Boy was sired by J. J. Audubon, son of Alcyone, 2:27, another son of George Wilkes; dam Flaxy, by Bourbon Wilkes, he by George Wilkes. Flaxy is also the dam of Royal R. Sheldon, 2:04%, by Constantine, and Red Elm, 2:16%.

New Richmond was sired by Brown Hal, dam Jewess, by A. W. Richmond, son of Blackbird, 40.

Shadow Chimes, by Chimes, dam Charmer, by Mambrino King, dam of Carillon, 2:16%; Charming Chimes, 2:17%.

Dan Patch was sired by Joe Patchen, he by Patchen Wilkes, 356, son of Geo. Wilkes. His dam, Zeilia, is by Wilkesberry, son of Young Jim, also a son of George Wilkes; granddam Madam Adams.

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Onward Silver was sired by Onward, 2:25%, son of George Wilkes, dam Sylvan Maid, by Aberdeen, 27; by Hambletonian, 10; grandson by Tom Traveler, son of Tom Crowder (Brown's); great-grandson by Sorrel Tom, he by (Shawhan's) Tom.

New Richmond was sired by Brown Hal, dam Jewess, by A. W. Richmond, son of Blackbird, 40.

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## Home Circle

### A FRUIT-PIECE.

The afternoon of summer folds,  
Its warm arms round the marigolds.

And, with its gleaming fingers, pets  
The watered pinks and violets.

That from the casement vases spill,  
Over the cottage windowwall.

Their fragrance down the garden walks  
Where droop the dry-mouthed holly-hocks.

How vividly the sunshine crawls  
The grape-vine shadows on the walls!

How like a truant swings the breeze  
In high boughs of the apple trees.

The slender free-stone lifts aloof,  
Full languidly above the roof.

A hoard of fruitage, stamped with gold  
And precious mintins manifold.

High up, through curled green leaves, a  
pear

Hangs hot with ripeness here and there.  
Beneath the sagging trellis clings

In lush, lack-luster clusterings,

Great torpid grapes, all fattened through  
With moon and sunshine, shade and dew,

Until their swollen girths express  
But forms of limp deliciousness—

Drugged to an indolence divine  
With Heaven's own sacramental wine.  
—James Whitcomb Riley.

Written for the RURAL WORLD.  
THE LOUD GIRL.

Recently in a public gathering two girls were noticed who talked in loud tones, and of matters that should only have been discussed in the privacy of their own homes. They discussed the private affairs of leading citizens in such a manner, as they thought (at least so it seemed), would show that they were on most intimate terms with these parties. If they were as intimate as their conversation would seem to indicate, assuredly they were guilty of the almost unpardonable—that of making public the private affairs of their friends. All sitting convenient could not avoid hearing the conversation.

Other times have we been pained to see young girl acquaintances have endeavored to attract attention by boisterous conduct—laughing loudly, talking in noisy tones and throwing themselves back and forth. The vehemence with which they conversed and the glances cast at those near them very plainly said: "Don't you see me? Aren't we having lots of fun?"

Many times such conduct is the result of the lack of careful training, or the exuberance of youth. But it always be tokens lack of self-control. While in children it is pardonable, a young woman should never thus cheapen herself—nearly so fully expresses such deportment as cheap.

Young women who have become conscious of the folly of loud, boisterous conduct always deeply regret the time when they were so heedless as to right public conduct. Young men are sometimes attracted by it, but they as surely censure sisters for rudeness in public. Inconsistently you say? Yes, and furthermore, we are many times surprised that the one we regarded as popular because of forcing her into public notice is our "bachelor" girl—you know old-maid is obsolete. But a gentle, well-bred girl who is always ladylike in company will ever be a favorite.

Then, too, the influence of such girls is far-reaching. A brother is many times kept from evil by a sister who is noted for her modest bearing. This doesn't mean that she is lacking in force of character, but that she does know how to control herself. Let our girls have their spring time of life full of joy, but let them know that rudeness brings its own sting. A quiet, dignified bearing in public will attract the notice of desirable friends and will get the approval of all. Don't be loud for the sake of fun or attracting attention.

MRS. MARY ANDERSON.

Caldwell, Co., Mo.

Written for the RURAL WORLD.

CLIFF REMINISCENT SKETCHES.

The Gypsy Camp.

At one time just succeeding the closing scenes of the Civil War, a band of gypsies was camped on the open space at the northern terminus of Cave Hollow. They were more numerous than such bands usually are, and had a full proportion of women and children.

Their camp presented an ideal picture of a desultory and roaming life. Their hastily erected habitations were rude in construction and the surroundings slovenly in aspect. The wagons were placed in a circle around the camp. The whole formed a scene in portraiture picturesque in its realism.

A detachment of the band occupied the area in front of the cave and utilized it for a storeroom for such goods as they possessed, and for an armory. Their horses were picketed indiscriminately along the Hollow between the two camps, and were as a rule fine animals. They were fed with forage surreptitiously obtained from the farmers of the surrounding country.

The men made frequent raids into the more densely populated country and to the towns and villages at a distance larger or smaller bodies, according to circumstances, and always returned laden with plunder. When not on these jaunts they lounged around camp in idleness and sleeping, smoking their pipes and feasting. The women did the drudgery, manufactured notions for retail at the villages, told fortunes and appropriated to them-

selves such articles as came in their way. Mathilde, Queen of the Gypsies, joined the band during their sojourn here and remained with them for several weeks. These were halcyon days for the band. There was less drudgery for the women, the men were more active in cleanliness and the camp had a greatly improved condition in comfort and appearance. Many people visited them, coming from miles distant, especially on Sundays, when the environs of the camp resembled a picnic of large magnitude, and some lively scenes were enacted—the men trading horses, the women disposing of their notions and retailing spurious fortunes to their credulous dupes. The fortune they obtained was far more stable than that disposed of.

The Queen was a remarkably handsome woman of Spanish and Egyptian lineage, with jet black hair and eyes, a stately figure, an imperious walk, of about thirty years of age, born to command, yet supremely loved by all her subjects. At the time she came to the camp here she was en route to meet the assembling bands of her people in the East. She had recently traveled through several states in the sunny South and made an extended tour in the West, having consumed a year in her jaunt and visited numerous bands. When she departed for her destination the band here accompanied her, and gypsies life in Cave Hollow had ended. D.Y.P.E. Ellington Co., Ill.

Written for the RURAL WORLD.  
GOLDEN ROD.

"Ah not in the morning of April or May,  
When the young light lies faint on the sod,

And the wind flower blooms but the half of a day.

Not then comes the Golden Rod.

But when the young year has grown

vivid and bold,

With its utmost of beauty and strength,

Then it lifts up its leaves and its ban-

ners unfold,

All along the land's green length."

Now is the time when the golden rod decks and nods, everywhere, seemingly. I have an idea that I would like to see carried out. It would teach children to know and love the flower better. Let the principal or teacher of every school set apart a day as they do for so many other things, and call it Golden Rod Day. Let the house be profusely decorated with it. Have select poems recited by scholars about it. It is a pretty flower and there are many nice things said about it by different ones. I am going to give what poems I have to little folks to learn. Barry Co., Mo. PEARL M.



are likely to be used for glazing coffee. If you knew, you would be sure to demand

### Lion Coffee

which is never contaminated with any glazing of any sort, either eggs or gins—just pure, fresh, strong, fragrant coffee.

The sealed package insures uniform quality and freshness.

the middle of last of the week when the Saturday's baking is all gone it is easy to make a filling; and lo! a nice fresh pie for dinner, and my cocoanut pie is one of my fillings. One pint sweet milk, one-half cupful sugar, put on the stove and let come to a boil; stir in two-tablespoonfuls cornstarch wet up with a little milk. When it has cooked thick enough remove from the fire, stir in one egg beaten light, one-half cupful shredded cocoanut and one teaspoonful orange extract, and pour in the ready baked crust, sprinkle a little of the cocoanut over the top of the pie, or the white of the egg may be reserved and whipped into a meringue and put on the top of the pie. This makes a very rich pie.

In making plum butter add one-third apples cooked and rubbed through the colander. It improves the flavor of the plum butter and if plums be scarce, also adds to the quantity. Plums boiled and seeded and cooked with apples without putting through the colander, sweetened to suit the taste, make a nice sauce, something like marmalade. Apples and grapes also make a nice sauce. Remove the seeds of the grapes by separating the skins from the pulp, cook the pulp and put through the colander: cook pulp, skins and apples together and sweeten. MRS. F. J. EDWARDS. Seward Co., Neb.

### I CAN AND I WILL.

"I know a boy who was preparing to enter the junior class of the New York University," says a writer in an exchange. "He was studying trigonometry, and I gave him three examples for his lesson. The following day he came into my room to demonstrate his problems. Two of them he understood, but the third—a very difficult one—he had not performed. I said to him, 'Shall I help you?' "

"No, sir, I can and will do it if you give me time."

"I said, 'I will give you all the time you wish.'

"The next day he came into my room to recite another lesson in the same study.

"Well, Simon, have you worked that example?"

"No, sir," he answered, "but I will do it if you give me a little more time."

"Certainly; you shall have all the time you desire."

"I always like those boys who are determined to do their own work, for they make our best scholars, and men, too. The third morning you should have seen Simon enter my room. I knew he had it, for his whole face told the story of his success.

Yes, he had it, notwithstanding it had cost him many hours of hard work. Not only had he solved the problem, but what was of much greater importance to him, he had begun to develop mathematical power, which, under the inspiration of 'I can and I will,' he has continued to cultivate, until to-day he is professor of mathematics in one of our largest colleges, and one of the ablest mathematicians of his years in our country." —Sealed.

### GOOD BROTHER JIM.

The car remained at a standstill for so long a time that everyone wondered if something were wrong. It was soon seen, however, that a sturdy little urchin was very tenderly helping a lame child aboard, and as the car moved on, his cheery "good-bye" called a smile to the cripple's wan face.

The latter seated himself so that he could look out the window, and every few minutes he waved his hand at some one on the street. The other people in the car became curious, and, looking out, saw a little fellow running along the sidewalk, keeping pace with them.

"Who is that?" asked a lady of the lame boy.

"Why that's Jim!" was the proud response.

"Yes, dear; but who is Jim?"

"Why, Jim's my brother, of course!"

By this time every one was listening in smiling sympathy.

"Oh! I see," said the lady; "that's the boy who helped you on the car. But why does he not ride with you?"

"Why," he said, "we only had a nickel, and Jim said I must ride. You see," he added, after a pause, "I can't walk well, but Jim, he can run fine!"

"See! what is this?" the lady said.

With eyes big with delight, the child caught up a five-cent piece that had miraculously appeared in his torn little cap which lay on the seat between the lady and himself. Then, with frantic gestures, he hailed "Jim," who boarded the car at the next corner.

It would be hard to say who was happiest on that car during the remainder of the trip, but surely the boys thought that they were.—Vick's Family Magazine.

Mothers will find "Mrs. Winslow's Soothing Syrup" the best remedy for Children Teething.

### CHOCOLATE LOAF.

One-half cup grated chocolate, yolk of one egg, one-half cup milk. Cook together until rather thick and set in a cool place, while the following is prepared: Yolk of two eggs, one and one-half cup sugar, one-half cup butter, one cup flour, one-half cup sweet milk. To these add the cooked chocolate; beat all together and add the beaten whites of two eggs and another cup of flour, to which is added two teaspoonsfuls of baking powder. The remaining white of egg may be used to frost the top of the loaf.

### CROQUETTES OF VEAL.

Take some cold fat, or any part of cold veal, and mince it very fine. Place it into a stewpan with a little pale stock, a table-spoonful of cream, a little salt and pepper, with enough flour to thicken. Let it boil up, then pour into a soup plate and put aside till quite cold. Then divide it into small portions, form into little balls about the size of a bagatelle ball, roll in fine flour, then in beaten egg, roll in bread-crums and fry a delicate gold color.

Dish up in pyramid fashion and garnish with parsley. Chicken is fine prepared in the same way.

### WHEN JOHNNY SPENDS THE DAY.

When Johnny spends the day with us, you never seen the beat O' all the things a-happening' in this ole house an' street. Ma she begins by lockin' up the pantry door an' cellar, An' ev'ry place that's like as not to interest a feller.

An' all her chinny ornaments, a-stickin' round the wall. She sets as high as she kin reach, for fear they'll get a fall.

An' then she gets the arricky, an' stick-in'-plaster out.

An' says, "When Johnny's visitin' they're good to have about."

I tell you what, there's plenty fuss

When Johnny spends the day with us.

When Johnny spends the day with us,

Pe puts his books away,

An' says, "How long in thunder is that nonsense goin' to stay?"

Brings the new lawn-mower up an' locks it in the shed:

An' hides his strup, an' razor, 'twixt the covers on the bed;

He says, "Keep out that liberry, whatever else you do,

Er I shall have a settlement with you an' Johnny, too!"

Says he, "It makes a lot o' fuss

To have him spend the day with us!"

When Johnny spends the day with us,

Pa puts his books away,

An' says, "How long in thunder is that nonsense goin' to stay?"

Brings the new lawn-mower up an' locks it in the shed:

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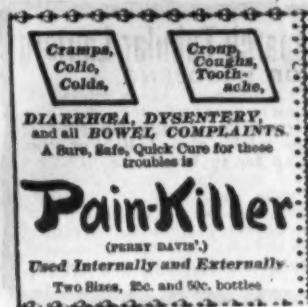
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When Johnny spends the day with us,



## The Pig Pen

### CONCERNING FALL PIGS.

There is no doubt about it, that if properly handled, fall pigs will make a better growth than those farrowed in the spring. The principal point is to furnish warm quarters upon the approach of cold weather, with a good, dry bed well littered, and a liberal amount of nourishing feed. September is the month in which the farrowing should occur, for the weather is then warm without that extreme heat so debilitating to all very young animals, consequently rapid growth and a good size are assured before cold weather comes. The pigs may even be weaned and the dam again bred in time for an early spring litter, writes Fred O. Sibley in the "Ohio Farmer."

The sows, of course, should have a liberal range during the summer. After harvest they will do very well in the stubble fields, gleaning all stray heads of grain, finding grass along the fences, and hence require no other food. Added to this, the exercise thus obtained is exactly what is needed to insure healthy pigs. Just before farrowing time the sows should be taken to the barn where the litter may be looked after to better advantage than in the field. Treated in this way, there will be little danger of the dams' eating their young.

As soon as possible the pigs should be let out on the ground. The exercises they will then take is good for them, and make them much better than if they were kept in a pen.

At first the sow's diet should be restricted to a little slop or bran mash, with plenty of cold water. Never give corn to a sow with little pigs. Rather should bran be given, ground oats or barley, or any combination of these feeds. Milk is also excellent, and when fed to the dam will induce a good flow for the pigs. September pigs weaned in November, or when about eight weeks old, will do very well by themselves, and the sow may be bred again as soon as possible.

Just after weaning is the most critical period with the pigs. If they are not properly fed then they will fail to thrive, and once at a standstill! It is a skillful feeder indeed who can again get them into condition. Moreover, a pig once stunted will never get as large as one that has been kept growing regularly right up from its birth. Plenty of milk should be fed for the first few weeks after weaning; and it should be sweet skim milk, as sour milk is liable to cause bowel trouble. For this same reason the use of buttermilk is not to be recommended for either young pigs or for sows while suckling their pigs.

Sweet skim milk made into a thick slop or gruel, or ground oats constitutes an excellent food for pigs.

How much should be fed? That must be determined by the amount eaten. Never give so much that there is some left in the trough at the next feeding time. It is better not to feed quite enough than to overfeed, for overfed pigs are very liable to be troubled with diarrhea. If possible, one should feed just what the pigs will eat up clean before another feeding time.

Pigs that are nearly of a size only should be kept together. All the smaller ones should be sorted out and kept by themselves.

Small or large, however, all pigs do much better (even in midwinter, unless the weather be severely inclement) to have outdoor exercise. It will do them good to get to the ground during the day, but at night they should be shut up where there is a good dry bed of straw. Filthy resting places are an abominable thing in a hogpen, as elsewhere.

Corn should not be given until the pigs are nearly large enough to be disposed of for market purposes. Until then a good growth of bone and muscle is desired, and the grains already mentioned will produce better than anything else.

**WHY RAISE HOGS.**

Except in a few isolated cases of wealthy men who farm for recreation and amusement, the class whom the late Horace Greeley recommended to plant the "striped handle" variety of broom corn, men go into farming as a business venture, just as they adopt any other calling, says the "Western Swineherd." The prime incentive is, first to make a living; second, to make what profit is possible over and above a living. Could statistics be made available we believe they would show that since transportation has been available and markets became permanent more money has been made, with less labor, from hog raising than from any two other branches of farming that can be named, this, too, in spite of the fact that enormous losses have been sustained through the ravages of disease. To-day, with hogs at \$5.50 and higher on the Chicago market hogs are veritable gold mines for their raisers.

It is our belief that every farmer of 20 or more acres of land, be he owner or only tenant, will find hogs his most profitable product, year in and year out. They will largely convert most of his other crops into pork at a price beyond their market value, and in addition will make pork from that which would otherwise go entirely to waste. The time and labor given to hog raising is as a rule so slight as to interfere but little with his other work, not that extra time and care would not add to the profits, but because the hog will thrive with little attention as no other live stock will.

The expense of starting a herd is infinitesimal compared with that required to get a start with horses or cattle, and the returns follow so close upon the start that the investment is realized upon in as little time as is a corn crop. The phenomenally

successful hog raisers are to-day producing 300-pound hogs in from eight to ten months and escaping care for anything besides their breeding stock during the coldest and most disagreeable of the winter months.

With care in selection of breeding stock one ought at present prices of pork realise \$100 from the produce of each broad sow kept, in ten months of each year, at an expense of \$5. What other farm crop will pay equally well? In recent years increased interest in hog breeding has brought the subject down to a science at least as exact as that of horse or cattle breeding, and literature on the subject has placed the science in easy reach of all, so that none need neglect hog raising because they do not know how. Experience is valuable, of course, but we believe the average beginner, to-day, with the book and newspaper information he can have at hand, can take up the business and conduct it more successfully than did anybody 40 years ago. These are some of the reasons why the farmer, small or large, should raise hogs.

**JOHN COWINE'S WAY OF FATTENING HOGS.**

At the meeting of the Kansas State Board of Agriculture John Cowine of Iowa read a paper on Swine Raising, in which he gave his method of fattening old hogs. He said: My method of fattening old hogs is simply this: My hog house is kept clean and well bedded.

I have a feeding floor on the east of the hog house 16 feet wide. Every morning I go in and call the hogs to get up. They come right out into the yard, where they are watered. Get them out at the same hour every morning. In the winter they do not like to get up as early as in the summer. Like the hired hands in that respect; about sunrise suits them.

Water them out in the yard. If you do this every particle of droppings will be left in the yard. While they are out there you have a clean floor for them to feed on; crib close by. The floor should be as clean as this floor is here. Then open the gate; tell them breakfast is ready. They will come right in. In about an hour they will clean it up, if they leave any, give them a little less. If they need more, give them a little more. You can soon determine just what they will clean up, but do not give them any more.

As soon as they get through, open the door into the hog house. They will walk in, go right into their pens, clean, well fed. They will lie down and it will only be a few moments until you will hear:

"Augh! a-u-g-h!" They are putting on fat then. Open the door; see that the windows are open; let them have good ventilation.

Allow them to remain there until 3 o'clock in the afternoon. Then put them out again; water them; let them on your feeding floor again, and about 4 or 4:30 open the door and let them back into the hog house. They will go in and lie there until the next morning. Then they are putting on fat.

I have fed 300 or 400 hogs that way, and I have never had any hog house but what I could lie down in this suit—just got this suit to come down here in—I could lie down in that hog house and not soil my clothes, and the man who does not keep his hogs in that condition ought to quit the business.

The hog is the cleanest domestic animal we have, and if he is properly cared for there will not be one particle of droppings or urine in that hog house. They will set one corner off into a kind of closet, and they will go back and forward to that.

Give them just room enough to lie down and no more.

It is an advantage to have your hog house divided off into pens. If you haven't enough hogs to fill up your hog house, shut off part of the space; give them just enough room to occupy and no more.

You should keep your hog house just as clean as this room. After you have fed them, clean the feeding floor. What would you think of your wife if she let the dishes sit on the table from one morning to another? Suppose the supper was served on the same dishes. You would say to yourself that you wished you had not married that woman.

I would no more think of feeding my hogs on a feeding floor that had not been cleaned immediately after the last meal than I would of eating my dinner off the breakfast dishes without washing. I have not done it for 30 years. It is a small matter. We have a wooden hoe made out of a 2x6, three feet in length; have an old saw for the lower edge. This is wide enough to sweep off three or four feet at a time. If your floor is smooth, and if you can do it immediately after feeding, you can clean it off as clean as if swept.

By having the floor three feet high on one side, you can clean it off, month after month, and the refuse will not pile up on you. No matter how wet or muddy it is, if your hogs are confined in this building their feed is always clean.

Feed your hogs corn and water. I would add a few oats and perhaps a basket or two of raw potatoes once a week, but my main feed would be corn and cold water.

With shoats it is entirely different.

When you get the hog 18 months of age you have one of bone and muscle. Then you need a fat-producing grain.

Oats and shorts make an ideal feed for young shoats.

Again, after I have my hogs fattened I would not drive them to market. I live three miles from a railway station. Whenever I have driven them that distance I have had a loss of from five to seven pounds. If I hauled them I have never had a shrinkage of more than one pound and a half to two pounds. Then I would have my cars well bedded; ride with them myself; go with them to Chicago; stay with them in the yards, water, feed, and stay by them until they cross the scales.

There is money in the hog business if it is properly conducted. There is no money in it if it is not properly conducted.

W. M. H. KER, Prairie du Rocher, Ill., proprietor of the Elmwood Herd of Berkshires, writes us that his pigs are doing well. He has a few ready boards for service that are for sale, also a few May sow pigs. He will have some fall pigs that will do to ship about November 1.

Both clover and sorghum hay are good for hogs, and with plenty of it will require much less grain feed than is usual.

Not more pigs so much as better pigs, is the road to success and greater profits in swine growing.

A pig neglected and stunted at the start is like the hacked and barked tree when it is young. Neither ever overcomes the harm done them when starting growth.

It is not best to have your dogs kid too early in the spring, as the kids are

### "SWILL."

I do not like the word as used in connection with swine feeding. It is a comprehensive one, covering about all foods and substances fed to pigs, many of which never should be fed. I do not like the name swill because as made on too many farms it is a filthy, sour product, writes John M. Jamison in "Stockman and Farmer." The sourness is so strong as to make it unfit for any animal to drink, not even a fit ration for hogs, and they are though equal to digesting anything that will decay under the influence of nature's elements. Admitting that a swill slightly acid works no harm and is enjoyed by the hogs, we have to determine its acidity? It will be almost impossible to have it twice alike after standing 12 to 24 hours, because the temperature of these hours is never the same in succession. Why not wipe the term swill off the slate in practical pig feeding, and with it let go many obnoxious morsels or mixtures that would hardly find their way to the pig trough except through the swill tub or barrel. If the swill goes, the swill barrel and tub will have no place on the farm any more, which is as it should be. It is much better that the dishwater from the kitchens go on to the compost heap than into the swill barrel unless the soap used is the old-fashioned lye kind.

### A GOOD HOG TROUGH.

I made a hog trough that I like to perfection, as I can pour the slop into it without being disturbed by the hogs, and all of them can go to drinking at once and each get his share, says a writer in "Swine Advocate." It is made for eight small shoats or four large hogs. I made it eight-sided, of one-inch oak lumber, with sides slanting about the same pitch as a V-shaped trough. It has a spout down the middle, into which the slop is poured, it running out below for the pigs. The bottom is sixteen inches in diameter and has 2x4 pieces nailed all around the bottom, and sides nailed on securely, the sides being ten-inch board sawed so as to fit securely together and nailed together at corners with six-penny finishing nails, and a No. 12 wire stapled securely with small staples around the top and one around the outside about three inches down from top. Then a stout brace is nailed from center spout about seven inches from bottom up to every other corner, or four braces. For eight large hogs the bottom should be about twenty inches in diameter, and side boards twelve inches wide and eight braces or a place for each hog to eat.

### SELECTING BROOD SOWS.

Too many farmers expect the boar not only to be half the herd, but even more, so far as quality is concerned. Every sow that has been tried and found wanting should be discarded. It may be in not being good sucklers, or it may be deficiency in prolificness, or it may be cause of difficulty in farrowing. It does not pay to keep a sow that only farrows three to five pigs, when on the same cost of wintering another will produce from eight to nine. Eight good pigs are about right.

In selecting a young and untried brood sow observe the following:

1. Let her have good length of body.

2. Not too closely coupled over her loins; some would term it "not too closely ribbed." We want roominess in the sow.

3. Let her be broad in her forehead, for she must be an intelligent animal.

4. She also should be full eyed for the same reason.

5. She should stand well on her feet, and be not too low, else herudder will trouble by dragging over even low obstacles.

She should also be broad over the hips so as to insure the easy delivery of her young, and in addition have twelve teats well placed, if possible.

Always select such sows from prolific mothers, and good, careful mothers, too, that have been good feeders and milkers; at the same time bearing in mind the breeding from the same points of excellence on the side of the sire. These sows, so selected, should grow and not fatten.

A great point in raising pigs for the pork market is to have your sows bred near together as possible, so that the fattening herd will be of about same age and size.

It makes quite a perceptible difference when it comes to selling a bunch of fat hogs to have an even lot in size. The brood sows should be fed a growing and not fattening food.—Exchange.

## The Shepherd

### THE ANGORA A BENEFICATOR.

At the request of Secretary F. D. Coburn of the Kansas Board of Agriculture, Mr. R. C. Johnston, of Lawrence, read an interesting paper before the late annual meeting of the Board, on the subject of Angora goats. Mr. Johnston is well qualified to intelligently write of these animals, as he has been breeding and handling Angoras quite extensively for some years. He has sublime faith in their ability to adapt themselves to varied conditions, and to do much toward transforming otherwise waste places into profitable areas.

He says in part: "The Angora grows to the same size as sheep, but does not mature so rapidly. A six-months-old lamb will weigh more than a kid of the same age with equal care; therefore, the goat is not as good to raise for the early market; but this is more than offset by the fact that it carries its lamb or soft coat longer than a lamb does, and its life is so much longer than that of a sheep.

It is a prolific breeder and a productive sheeper until twelve and fourteen years. Its wool is finer than that of a sheep's peat, because of the furs, rugs and kid-leather robes manufactured from them, while the skins of the lower grades sell at about the same price as peats.

"The Angora does not as good milkers as the Maitaise and Swiss goats, but they give plenty for rearing their young. They are kind and watchful mothers, and will fight for their kids. These goats are profitable animals in the feed lot; give them like conditions and the same grain and they will take on flesh very rapidly, and fatten in one-fourth less time than sheep. They respond very quickly to good care. At the final test of all domestic animals—the butcher's block—the Angora is not found wanting. Their flesh in summer, when browsing, has a very delicate flavor, between venison and mutton, which gives the name 'venison' to the meat. In winter, when fattened on grain, it loses that flavor, but acquires a mutton flavor. It has none of that 'woolly' taste of mutton which is so objectionable to many people. Thousands of them are killed in our packing houses and sold as 'well-dressed mutton.' Only an expert can tell the difference, as their carcasses appear the same when hanging in the market. They will dress out a larger per cent of meat than sheep; hence are much more valuable, and their meat is more juicy than mutton and has a finer flavor."

### THE GENIUS OF SHEPHERDS.

A close observer of men and affairs once said: "Genius is but application intensified." Of course this view of genius applies each walk and vocation of life, says "Wool Markets and Sheep." It dominated Jay Gould in his day and is still the ruling power over John D. Rockefeller and Andrew Carnegie, as well as thousands of other successful men. Someone says that those men represent railways, Standard oil and steel and must not and cannot be compared with those connected with agricultural pursuits. In answer to such ideas we draw some inspiration from one of those interesting and instructive letters written by Frank G. Carpenter, dated Sydney, Australia, which is now lying before us as it appears in a newspaper of recent date.

This letter in particular is a most instructive one, in that it sets forth the public enterprise of the flockmasters of Sydney by reaching out for rams of the very best quality, notably showing a preference for American Merinos. The point, however, which bears particularly on the genius of application intensified is that those men represent railways, Standard oil and steel and must not and cannot be compared with those connected with agricultural pursuits.

In answer to such ideas we draw some inspiration from one of those interesting and instructive letters written by Frank G. Carpenter, dated Sydney, Australia, which is now lying before us as it appears in a newspaper of recent date.

Pro. Shaw in the "Farmer." When litter is strewn on such a floor the sheep tread it firmly. If supplied with litter with sufficient frequency it makes a nice bed for them, but care should be taken to supply the litter from day to day as needed in order to keep it fresh and clean, and to keep away all unnecessary subsoil moisture.

Such a bed is at least fully as good as though it were on a concrete floor, and if the sheep are well supplied with litter, they will be all absorbed by the bedding.

There will be no more waste of urine than if the floor were wood. Manure thus made in sheep pens is of excellent quality. It has not only all the solids and liquids

which are well voided by the sheep, but these are also nicely blended. The manure is also impacted by the sheep so that the volatile parts are not readily lost.

There is some danger, however, that sheep manure may take injure through fang.

It is somewhat deficient in moisture. Because of this danger, sheep manure should not be allowed to lie too long before applying it to the land. Wherever white

mold appears in the manure, it is an indication that it is losing more or less of the nitrogenous substance in it. The aim should be to avoid such loss, as the nitrogen in the manure is the most valuable ingredient in the manure.

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Send us your order for four full quarts of one-year-old Rye for \$3.15.  
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It is almost impossible to get pure whiskey from dealers. These goods are shipped direct from the Distilling Co., which guarantees the quality of our Registered Distillery; others who claim to be REFERENCES, any Express Co., U.S.A. Wash., Wyo., Minn., Colo., Ind., Mo., etc.  
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Warehouse 638, ST. LOUIS, MO.

The above firm are sole owners of registered Distillery No. 22 of the Sixth District of Missouri. When writing them, please mention COLMAN'S RURAL WORLD.

## The Twice-a-Week Republic</h2

# The Markets

**WHEAT—Cash Market—Sales of No. 2 red at 7½¢ this and 7½¢ E. side; No. 3 red quotable at 70¢/lb and No. 4 at 6½¢ skd. in elevator; 1c for No. 2 red and 1c to 2c for No. 3 and No. 4; hard winter at 60¢/lb for No. 2 and 6c for No. 3; outside rates for Kansas.**

**CORN—Cash Market—No. 3 mixed or better selling at 1c under No. 3 white or better at Dec. prices.**

**OATS—Cash Market—No. 2 sold at 28¢; No. 3 at 37½¢; No. 4 white at 39¢/lb for fancy E. side; No. 4 white at 38¢/lb.**

**RYE—No. 2 55¢/lb this side, 50¢ E. side.**

**HARLEY—Quotable at 50¢/lb according to weight and color.**

**BRAIN—E. side country points 7c; 10c; skid 80c; on trk. 80c; bulk 7c. This side 82¢/lb at mills.**

**SHIPSTUFF—60¢/lb.**

**HAY—Timothy \$140/450 for choice, \$15 for No. 1, \$100/lb for No. 2; clover \$10/lb for No. 2; clover \$100/lb for No. 2 and \$12 for No. 1; clover-mixed ranges at \$9 to \$15; prairie, this side, \$12@13.50 for No. 1 and \$8@10 for No. 2; alfalfa \$12@13.50.**

**PRICES ON CHANGE.**

The following tables show the range of prices in future and cash grains:

**Closed Saturday. Range Monday. Closed Saturday. Range Monday.**

**Wheat—Sept. .70 n. 70 n. Dec. .714@.71b 714@.71b May .74% b 74@.75**

**Corn—Sept. .57 n. 56% n. Dec. .57% b 56%@.57% May .59@.61% 59% a**

**Oats—Sept. .37 n. 37 n. Dec. .37% 37 n. May .39% a 38%@.39% 39**

**Cash wheat, corn and oats ranged: Wheat—Range Saturday. Range Monday.**

**No. 2 red....714@.72 714@.72 75¢@.79**

**No. 2 red....704@.70 704@.71 74 75¢@.79**

**No. 4 red....69 70 69 @.70 68 73¢**

**No. 2 hard....69@.69 69@.69 72 @.72 68@.72**

**No. 3 hard....68@.68 68@.68 69 @.71 69 @.71**

**Goats—No. 2.....58 @.58 40 @.58**

**No. 2 white....59 @.59 41@.59 42¢**

**No. 3 mixed....65@.65 58 @.65 39¢@.39¢**

**No. 4 mixed....65@.65 57@.65 57@.65**

**No. 3 white....53@.53 53@.53 53@.53**

**No. 2 yellow....58@.58 58@.58 40 @.58**

**No. 3 yellow....57@.57 58 @.58 58 @.58**

**Corn—No. 2.....75@.78 38 @.78 23¢@.24¢**

**No. 2 north....38 @.38 38 @.38 38 @.38**

**No. 2 white....39 @.39 39 @.39 27 @.28**

**No. 3 white....38@.38 38 @.38 25 @.26¢**

**No. 4 white....38@.38 38 @.38 25 @.25¢**

**No. 3 mixed....37@.37 37@.37 23 @.23**

**No. 4 mixed....36@.36 37@.37 23 @.23**

**Missouri and Illinois—Medium combing, 18%@.18c; medium clothing, 16%@.16c; Laird and low, 16%@.16c; burr and near mixed, 14%@.15%; slight burry, 13c; hard burry, 11c; light fine, 13%@.14c; heavy fine, 10%@.11c; Arkansas and Southern—Medium (feeces), 16%; medium (loose), 15%; burry, 11@.12c; hard burry, 9%@.10c; Tub-washed—No. 1, 24c; No. 2, 26@.27c; slight burry, 13c; burr, 12@.13c; Angora goat hair—Long, 16@.16c; short and low, 11c; Laird and cotted, 5@.05c.**

**COTTON—Local spot quotations—Ordinary, 5@.05c; good ordinary, 6c; low middling, 7c; middling, 7%c; good middling, 8c; middling, 8c.**

**EGGS—Fresh in light offering, fair demand and steady, at 16c less off. Inferior less.**

**BUTTER—A healthy feeling prevailing, but little doing, save in choice grades of creamery—that was selling fairly to retailers. Offerings light. Creamery—Extra, 22c; firsts, 19@.19c; seconds, 17@.18c. Country—Choice, 11c; poor to fair, 9@.10c; grease, 4c. Dairy—Extra, 16@.17c; firsts, 14@.15c. Ladie-packed—Extra, 15c; firsts, 13c.**

**CHEESE—Jobbing: Twins at 10%; singles, 11c; daisies, 12c; Y. A., 13c; long horns, 14c; N. Y. large, 10@.10c; N. Y. small, 11c; Limburger, 11c; Swiss, 16c; brick, 12c.**

**LIVE POULTRY—Quiet. Chickens in light offering and in limited demand, shipper being out at over 7c for young and 7c for old, while buying for the local trade for the week has not yet commenced. Turkeys, ducks and geese steady, though in very small movement. Spring chickens, average receipts, 7c. Chickens—Hens, 7c; roosters, 7c. Turkey—Old, 7c; young, good dressing, 7c; less than 6 pounds, 5c. Ducks—White, 5@.05c; dark and plucked, 5c. Geese—Full feathered, 5c. Live pigeons, per doz., 6c.**

**PEACHES—Receipts good; prices easy; grown-home at 15@.15c per bu. box, 10@.00c per 1/2-bu. basket, as to quality; fancy Elbertas higher, selling from 70¢@.80 per box; Missouri 1-1/2-bu. box 10@.25c; Illinois 4-basket crate 20¢/25c.**

**NEW APPLES—Receipts fair; market unchanged; sound, well-packed quote range 75¢@.75¢ for pears to 1\$2@.75 per bbl. for fair to choice smooth and 26¢/lb for fancy varieties; home-grown windfalls \$6@.60 per bbl.; at 71\$2@.75 per bbl.; Keiferv. \$1.50@.62 per bbl.; Bartlett \$2@.25 per bbl.; Duchesse \$2@.25 per bbl.**

**PLUMS—40@.45c per 1/2-bu. basket for damsons.**

**GRAPES—Easier at 22@.23c for Ohio Delaware in 8-lb. baskets; pony Delavars 15c; Elviras and Marthas 10c per 8-lb. basket; Ohio Ningars 12-lb. baskets 15c; pony 16@.16c; Ives 8-lb. basket 12c; Wordens 12@.12c; Ohio, Michigan and New York, and Martha 14c per basket.**

**POTATOES—Higher: Northern and Eastern 50@.70c per bu. bulk.**

**ONIONS—Choice near-by yellow 20¢/25c; red 25¢/25c; white globe 12@.10 per bu.**

**SWEET POTATOES—New home-grown Bermuda 50@.75c per bu. loose; Virginia red 2.25; Virginia yellow 2.**

**BROOM CORN—Owing to lack of offerings, there are few or no sales. Market undoubtedly firm, and the brush is wanted. Quotable per ton, nominally, at from 7c for poor to \$100 for choice.**

**GRASS SEEDS—Timothy firm at from 34.75 for poor to \$100@.50 for and \$3.50 for clear, bright-grade prime worth even more. Clover quiet but steady at from \$5 for poor up to \$9 for the best of the current receipts; redtop—fancy export at \$10, fancy otherwise at \$5 to \$9. Sales 143 sacks alfalfa and small lots redtop on p. t.**

**MRS. WINSLOW'S SOOTHING SYRUP** has been used for over sixty years by millions of mothers for their children's colds, coughs, etc. It soothes the child, calms the mind, eases the pain; cures wind colic, etc. It is the best remedy for whooping cough. Druggists in every part of the world. Be sure and ask for "Mrs. Winslow's Soothing Syrup," and take no other kind. Twenty-five cents a bottle.

**SUNFLOWER SEED—Prime white Russian at \$2 per 100 pounds nominally.**

**CASTOR BEANS—Nominally at \$1.25 per bushel for prime. Smaller lots and inferior less.**

**DRIED FRUITS—Offerings larger and movement free; but values are still drooping and in buyers' favor—lower on evaporated goods. The offerings included 2 car loads and 45 sacks evaporated rings apples, 1 car load evaporated chops and peelings, 275 packages sun-dried quarters apples, 75 packages sun-dried peaches, and small lots various kinds—all sold on basis of appended quotations: Apples—Evaporated rings at 5c for inferior to 5¢/lb for No. 3 and No. 4; hard winter at 5¢/lb for No. 2 and 6c for No. 3; outside rates for Kansas.**

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